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(54) Title: OXYGEN OR SULFUR CONTAINING HETEROAROMATICS AS FACTOR Xa INHIBITORS

(57) Abstract

The present application describes oxygen and sulfur containing heteroaromatics and derivatives thereof of formula (I), or pharmaceutically acceptable salt or prodrug forms thereof, wherein J is O or S and D may be $C(=NH)NH_2$, which are useful as inhibitors of factor Xa.

$$\begin{array}{c|c}
R^{1a} \\
M & R^{1b}
\end{array}$$

$$\begin{array}{c}
R^{1a} \\
Z - A_{R}
\end{array}$$

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TITLE

Oxygen or Sulfur Containing Heteroaromatics as Factor Xa
Inhibitors

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FIELD OF THE INVENTION

This invention relates generally to oxygen or sulfur containing 5-membered ring heteroaromatics which are inhibitors of trypsin-like serine protease enzymes, especially factor Xa, pharmaceutical compositions containing the same, and methods of using the same as anticoagulant agents for treatment and prevention of thromboembolic disorders.

BACKGROUND OF THE INVENTION

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WO 95/13155 and PCT International Application US 96/07692 describe isoxazoline and isoxazole fibrinogen receptor antagonists of the formula:

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wherein R^1 may be a basic group, U-V may be a six-membered aromatic ring, W-X may be a variety of linear or cyclic groups, and Y is an oxy group. Thus, these compounds all contain an acid functionality (i.e., W-X-C(=O)-Y). In contrast, the presently claimed compounds do not contain such an acid functionality.

EP 0,513,387 depicts active oxygen inhibitors which are oxazoles or thiazoles of the formula:

$$R^2$$
 X R^1 R^3

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wherein X is 0 or S, R^2 is preferably hydrogen, and both R^1 and R^3 are substituted cyclic groups, with at least one being

phenyl. The presently claimed invention does not relate to these types of oxazoles or thiazoles.

WO 95/18111 addresses fibrinogen receptor antagonists, containing basic and acidic termini, of the formula:

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wherein R¹ represents the basic termini, U is an alkylene or heteroatom linker, V may be a heterocycle, and the right hand portion of the molecule represents the acidic termini. The presently claimed compounds do not contain the acidic termini of WO 95/18111.

In U.S. Patent No. 5,463,071, Himmelsbach et al depict cell aggregation inhibitors which are 5-membered heterocycles of the formula:

$$X_{2}^{X_{1}}X_{5}$$
 $X_{3}^{X_{4}}X_{4}$

wherein the heterocycle may be aromatic and groups A-B-C- and F-E-D- are attached to the ring system. A-B-C- can be a wide variety of substituents including a basic group attached to an aromatic ring. The F-E-D- group, however, would appear to be an acidic functionality which differs from the present invention. Furthermore, use of these compounds as inhibitors of factor Xa is not discussed.

Baker et al, in U.S. Patent No. 5,317,103, discuss $5-\mathrm{HT}_1$ agonists which are indole substituted five-membered heteroaromatic compounds of the formula:

$$A_{X,Y-Z} = A_{R^3}$$

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wherein R¹ may be pyrrolidine or piperidine and A may be a basic group including amino and amidino. Baker et al,

however, do not indicate that A can be a substituted ring system like that contained in the presently claimed heteroaromatics.

Tidwell et al, in *J. Med. Chem.* **1978**, *21(7)*, 613-623, describe a series of diarylamidine derivatives including 3,5-bis(4-amidinophenyl)isoxazole. This series of compounds was tested against thrombin, trypsin, and pancreatic kallikrein. The presently claimed invention does not include these types of compounds.

Activated factor Xa, whose major practical role is the generation of thrombin by the limited proteolysis of prothrombin, holds a central position that links the intrinsic and extrinsic activation mechanisms in the final common pathway of blood coagulation. The generation of thrombin, the final serine protease in the pathway to generate a fibrin clot, from its precursor is amplified by formation of prothrombinase complex (factor Xa, factor V, Ca²⁺ and phospholipid). Since it is calculated that one molecule of factor Xa can generate 138 molecules of thrombin (Elodi, S.,

Varadi, K.: Optimization of conditions for the catalytic effect of the factor IXa-factor VIII Complex: Probable role of the complex in the amplification of blood coagulation. Thromb. Res. 1979, 15, 617-629), inhibition of factor Xa may be more efficient than inactivation of thrombin in interrupting the blood coagulation system.

Therefore, efficacious and specific inhibitors of factor Xa are needed as potentially valuable therapeutic agents for the treatment of thromboembolic disorders. It is thus desirable to discover new factor Xa inhibitors.

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SUMMARY OF THE INVENTION

Accordingly, one object of the present invention is to provide novel oxygen or sulfur containing aromatic heterocycles which are useful as factor Xa inhibitors or pharmaceutically acceptable salts or prodrugs thereof.

It is another object of the present invention to provide pharmaceutical compositions comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of

at least one of the compounds of the present invention or a pharmaceutically acceptable salt or prodrug form thereof.

It is another object of the present invention to provide a method for treating thromboembolic disorders comprising administering to a host in need of such treatment a therapeutically effective amount of at least one of the compounds of the present invention or a pharmaceutically acceptable salt or prodrug form thereof.

These and other objects, which will become apparent during the following detailed description, have been achieved by the inventors' discovery that compounds of formula (I):

or pharmaceutically acceptable salt or prodrug forms thereof, wherein A, B, D, E, G, J, M, R^{1a}, R^{1b}, s and Z are defined below, are effective factor Xa inhibitors.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

20 [1] Thus, in a first embodiment, the present invention provides novel compounds of formula I:

or a stereoisomer or pharmaceutically acceptable salt thereof, wherein:

ring M contains, in addition to J, 0-2 N atoms;

30 J is O or S;

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D is selected from CN, $C(=NR^8)NR^7R^9$, $NHC(=NR^8)NR^7R^9$, $NR^8CH(=NR^7)$, $C(O)NR^7R^8$, and $(CR^8R^9)_tNR^7R^8$, provided that D is substituted meta or para to G on E;

- 5 E is selected from phenyl, pyridyl, pyrimidyl, pyrazinyl, pyridazinyl, and piperidinyl substituted with 1 R;
 - alternatively, D-E-G together represent pyridyl substituted with 1 R;
- 10 $\mbox{R is selected from H, halogen, $(CH_2)_tOR^3$, C_{1-4} alkyl, OCF_3, and CF_3; }$
 - G is absent or is selected from NHCH2, OCH2, and SCH2;
- Is Z is selected from a C_{1-4} alkylene, $(CH_2)_rO(CH_2)_r$, $(CH_2)_rNR^3(CH_2)_r$, $(CH_2)_rC(O)(CH_2)_r$, $(CH_2)_rC(O)O(CH_2)_r$, $(CH_2)_rOC(O)(CH_2)_r$, $(CH_2)_rOC(O)NR^3(CH_2)_r$, $(CH_2)_rNR^3C(O)(CH_2)_r$, $(CH_2)_rOC(O)O(CH_2)_r$,
- 20 $(CH_2)_rOC(O)NR^3(CH_2)_r, (CH_2)_rNR^3C(O)O(CH_2)_r, \\ (CH_2)_rNR^3C(O)NR^3(CH_2)_r, (CH_2)_rS(O)_p(CH_2)_r, \\ (CH_2)_rSO_2NR^3(CH_2)_r, (CH_2)_rNR^3SO_2(CH_2)_r, and \\ (CH_2)_rNR^3SO_2NR^3(CH_2)_r, provided that Z does not form a N-N, N-O, N-S, NCH_2N, NCH_2O, or NCH_2S bond with ring M or group A;$
- R^{1a} and R^{1b} are independently absent or selected from $-(CH_2)_r-R^{1'}, NCH_2R^{1''}, OCH_2R^{1''}, SCH_2R^{1''}, N(CH_2)_2(CH_2)_tR^{1'},$ $O(CH_2)_2(CH_2)_tR^{1'}, and S(CH_2)_2(CH_2)_tR^{1'}, or combined to form$ a 5-8 membered saturated, partially saturated or
 unsaturated ring substituted with 0-2 R⁴ and which
 contains from 0-2 heteroatoms selected from the group
 consisting of N, O, and S;
- 35 R^{1} ' is selected from H, C_{1-3} alkyl, halo, $(CF_2)_rCF_3$, OR^2 , NR^2R^{2a} , $C(0)R^{2c}$, $OC(0)R^2$, $(CF_2)_rCO_2R^{2c}$, $S(0)_pR^{2b}$, $NR^2(CH_2)_rOR^2$, $NR^2C(0)R^{2b}$, $NR^2C(0)NHR^{2b}$, $NR^2C(0)_2R^{2a}$, $OC(0)NR^{2b}$, $C(0)NR^{2a}$, $SO_2NR^2R^{2a}$, $NR^2SO_2R^{2b}$, C_{3-6}

carbocyclic residue substituted with 0-2 R^4 , and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^4 ;

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- R^{1} " is selected from H, C(0) R^{2b} , C(0) $NR^{2}R^{2a}$, S(0) R^{2b} , S(0) $_{2}R^{2b}$, and SO₂ $NR^{2}R^{2a}$;
- R², at each occurrence, is selected from H, CF₃, C₁₋₆ alkyl,

 benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b},

 and 5-6 membered heterocyclic system containing from 1-4

 heteroatoms selected from the group consisting of N, O,

 and S substituted with 0-2 R^{4b};
- 15 R^{2a} , at each occurrence, is selected from H, CF₃, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b} , and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b} ;

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- R^{2b} , at each occurrence, is selected from CF_3 , C_{1-4} alkoxy, C_{1-6} alkyl, benzyl, C_{3-6} carbocyclic residue substituted with 0-2 R^{4b} , and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b} ;
- R^{2c} , at each occurrence, is selected from CF₃, OH, C₁₋₄ alkoxy, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b} , and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group
- alternatively, R² and R^{2a} combine to form a 5 or 6 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^{4b} which contains from 0-1 additional heteroatoms selected from the group consisting

of N, O, and S;

consisting of N, O, and S substituted with $0-2 R^{4b}$;

 R^3 , at each occurrence, is selected from H, C_{1-4} alkyl, and phenyl;

 R^{3a} , at each occurrence, is selected from H, C_{1-4} alkyl, and phenyl;

A is selected from:

C₃₋₁₀ carbocyclic residue substituted with 0-2 R⁴, and 5-10 membered heterocyclic system containing from 1-4 10 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R⁴;

B is selected from:

X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, $NR^2C(=NR^2)NR^2R^{2a}$, C_{3-10} carbocyclic residue substituted with 0-2 R^{4a} , and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a} ;

- 30 Y is selected from:

 $(CH_2)_rNR^2R^{2a}$, provided that X-Y do not form a N-N, O-N, or S-N bond,

C₃₋₁₀ carbocyclic residue substituted with 0-2 R^{4a}, and 5-10 membered heterocyclic system containing from 1-4
35 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a};

- alternatively, one R⁴ is a 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- - alternatively, one R^{4a} is a 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-1 R⁵;
- R⁵, at each occurrence, is selected from CF₃, C₁₋₆ alkyl,

 phenyl substituted with 0-2 R⁶, and benzyl substituted with 0-2 R⁶;
- R⁶, at each occurrence, is selected from H, OH, $(CH_2)_rOR^2$, halo, C_{1-4} alkyl, CN, NO_2 , $(CH_2)_rNR^2R^{2a}$, $(CH_2)_rC(0)R^{2b}$, $NR^2C(0)R^{2b}$, $NR^2C(0)NR^2R^{2a}$, $CH(=NH)NH_2$, $NHC(=NH)NH_2$, $SO_2NR^2R^{2a}$, $NR^2SO_2NR^2R^{2a}$, and $NR^2SO_2C_{1-4}$ alkyl;

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 R^7 , at each occurrence, is selected from H, OH, C_{1-6} alkyl, C_{1-6} alkylcarbonyl, C_{1-6} alkoxy, C_{1-4} alkoxycarbonyl, $(CH_2)_n$ -phenyl, C_{6-10} aryloxy, C_{6-10} aryloxycarbonyl, C_{1-4} alkoxycarbonyl, C_{1-4} alkoxycarbonyl, C_{6-10} arylcarbonyloxy C_{1-4} alkoxycarbonyl, C_{6-10} arylcarbonyloxy C_{1-4} alkoxycarbonyl, C_{1-6} alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C_{1-4} alkoxycarbonyl;

- R^8 , at each occurrence, is selected from H, C_{1-6} alkyl and (CH₂)_n-phenyl;
 - alternatively, R^7 and R^8 combine to form a 5 or 6 membered saturated, ring which contains from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
 - R^9 , at each occurrence, is selected from H, C_{1-6} alkyl and $(CH_2)_n$ -phenyl;
- 20 n, at each occurrence, is selected from 0, 1, 2, and 3;
 - m, at each occurrence, is selected from 0, 1, and 2;
 - p, at each occurrence, is selected from 0, 1, and 2;
 - r, at each occurrence, is selected from 0, 1, 2, and 3;
 - s, at each occurrence, is selected from 0, 1, and 2; and,
- 30 t, at each occurrence, is selected from 0 and 1;
 - provided that $D-E-G-(CH_2)_S-$ and -Z-A-B are not both benzamidines.
 - [2] In a preferred embodiment, the present invention provides novel compounds of formulae Ia-If:

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wherein, groups D-E- and -Z-A-B are attached to adjacent atoms on the ring;

- 5 Z is selected from a CH_2O , OCH_2 , CH_2NH , $NHCH_2$, C(O), $CH_2C(O)$, $C(O)CH_2$, NHC(O), C(O)NH, $CH_2S(O)_2$, $S(O)_2(CH_2)$, SO_2NH , and $NHSO_2$, provided that Z does not form a N-N, N-O, NCH_2N , or NCH_2O bond with ring M or group A;
- 10 A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R4: phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, thiazolyl, 15 isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,3-triazolyl, 20 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, benzoxazolyl, benzthiazolyl, indazolyl, benzisoxazolyl, benzisothiazolyl, and isoindazolyl;
- 25 B is selected from: Y, X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, and $NR^2C(=NR^2)NR^2R^{2a}$;
- X is selected from C_{1-4} alkylene, -C(0)-, -C(=NR)-, $-CR^{2}(NR^{2}R^{2a})$ -, $-C(0)CR^{2}R^{2a}$ -, $-CR^{2}R^{2a}C(0)$, $-C(0)NR^{2}$ -, $-NR^{2}C(0)$ -, $-C(0)NR^{2}CR^{2}R^{2a}$ -, $-NR^{2}C(0)CR^{2}R^{2a}$ -,

 $-CR^2R^{2a}C(O)NR^2-$, $-CR^2R^{2a}NR^2C(O)-$, $-NR^2C(O)NR^2-$, $-NR^2-$, $-NR^2CR^{2a}-$, $-CR^2R^{2a}NR^2-$, O, $-CR^2R^{2a}O-$, and $-OCR^2R^{2a}-$;

Y is NR^2R^{2a} , provided that X-Y do not form a N-N or O-N bond;

alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with $0-2\ R^{4a}$;

cylcopropyl, cyclopentyl, cyclohexyl, phenyl,
piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl,
morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl,
oxazolyl, isoxazolyl, isoxazolinyl, thiazolyl,
isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl,
thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl,
1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl,
1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl,
1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,3-triazolyl,
1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl,

benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, 20 benzoxazolyl, benzthiazolyl, indazolyl, benzisoxazolyl, benzisothiazolyl, and isoindazolyl;

alternatively, Y is selected from the following bicyclic heteroaryl ring systems:

K is selected from O, S, NH, and N.

30 [3] In a more preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic:

25

wherein;

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5 Jis O or S; and,

Z is selected from a C(O), $CH_2C(O)$, $C(O)CH_2$, NHC(O), C(O)NH, $C(O)N(CH_3)$, $CH_2S(O)_2$, $S(O)_2(CH_2)$, SO_2NH , and $NHSO_2$, provided that Z does not form a N-N or NCH_2N bond with ring M or group A.

- [4] In an even more preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic,15 wherein;
 - E is phenyl substituted with R or 2-pyridyl substituted with $\mathsf{R};$
- D is selected from NH_2 , $C(O)NH_2$, $C(=NH)NH_2$, CH_2NH_2 , CH_2NHCH_3 , $CH(CH_3)NH_2$, and $C(CH_3)_2NH_2$, provided that D is substituted meta or para to ring M on E; and,

R is selected from H, OCH $_3$, Cl, and F.

[5] In a further preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic, wherein;

D-E is selected from 3-aminophenyl, 3-amidinophenyl, 3-aminomethylphenyl, 3-aminocarbonylphenyl, 3-(methylaminomethyl)phenyl, 3-(1-aminoethyl)phenyl, 3-(2-amino-2-propyl)phenyl, 4-chloro-3-aminophenyl, 4-chloro-3-amidinophenyl, 4-chloro-3-(methylaminomethyl)phenyl, 4-fluoro-3-aminophenyl, 4-fluoro-3-aminophenyl, 4-fluoro-3-(methylaminomethyl)phenyl, 6-aminomethylphenyl, 4-fluoro-3-(methylaminomethyl)phenyl, 6-aminopyrid-2-yl, 6-amidinopyrid-2-yl, 6-aminomethylpyrid-2-yl, 6-(1-aminoethyl)pyrid-2-yl, and 6-(2-amino-2-propyl)pyrid-2-yl.

- 15 [6] In another even more preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic, wherein;
- Z is C(0)CH₂ and CONH, provided that Z does not form a N-N bond with group A;
 - A is selected from phenyl, pyridyl, and pyrimidyl, and is substituted with 0-2 R^4 ; and,
- 25 B is selected from X-Y, phenyl, pyrrolidino, morpholino, 1,2,3-triazolyl, and imidazolyl, and is substituted with 0-1 R^{4a};
- R^4 , at each occurrence, is selected from OH, $(CH_2)_rOR^2$, halo, C_{1-4} alkyl, $(CH_2)_rNR^2R^{2a}$, and $(CF_2)_rCF_3$;
 - R^{4a} is selected from C_{1-4} alkyl, CF_3 , $S(0)_pR^5$, $SO_2NR^2R^{2a}$, and $1-CF_3$ -tetrazol-2-yl;
- 35 R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl, and benzyl;
 - X is CH_2 or C(0); and,

Y is selected from pyrrolidino and morpholino.

- 5 [7] In another further preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic, wherein;
- A is selected from the group: phenyl, 2-pyridyl, 3-pyridyl,

 2-pyrimidyl, 2-Cl-phenyl, 3-Cl-phenyl, 2-F-phenyl, 3-Fphenyl, 2-methylphenyl, 2-aminophenyl, and 2methoxyphenyl; and,
- B is selected from the group: 2-CF3-phenyl, 2
 (aminosulfonyl)phenyl, 2-(methylaminosulfonyl)phenyl, 2
 (dimethylaminosulfonyl)phenyl, 1-pyrrolidinocarbonyl, 2
 (methylsulfonyl)phenyl, 4-morpholino, 2-(1'-CF3-tetrazol
 2-yl)phenyl, 4-morpholinocarbonyl, 2-methyl-1-imidazolyl,

 5-methyl-1-imidazolyl, 2-methylsulfonyl-1-imidazolyl and,

 5-methyl-1,2,3-triazolyl.
- [8] In another even more preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic,25 wherein;
 - E is phenyl substituted with R or 2-pyridyl substituted with R;
- D is selected from NH_2 , $C(O)NH_2$, $C(=NH)NH_2$, CH_2NH_2 , CH_2NHCH_3 , $CH(CH_3)NH_2$, and $C(CH_3)_2NH_2$, provided that D is substituted meta or para to ring M on E; and,
 - R is selected from H, OCH $_3$, Cl, and F;
 - Z is C(0)CH₂ and CONH, provided that Z does not form a N-N bond with group A;

A is selected from phenyl, pyridyl, and pyrimidyl, and is substituted with 0-2 R^4 ; and,

- B is selected from X-Y, phenyl, pyrrolidino, morpholino,

 1,2,3-triazolyl, and imidazolyl, and is substituted with

 0-1 R^{4a};
 - R^4 , at each occurrence, is selected from OH, $(CH_2)_rOR^2$, halo, C_{1-4} alkyl, $(CH_2)_rNR^2R^{2a}$, and $(CF_2)_rCF_3$;
- R^{4a} is selected from C_{1-4} alkyl, CF_3 , $S(O)_pR^5$, $SO_2NR^2R^{2a}$, and $1-CF_3$ -tetrazol-2-yl;
- R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl, and benzyl;
 - X is CH_2 or C(0); and,
 - Y is selected from pyrrolidino and morpholino.
 - [9] In another further preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic, wherein;
- D-E is selected from 3-aminophenyl, 3-amidinophenyl, 3-aminomethylphenyl, 3-aminocarbonylphenyl, 3-(methylaminomethyl)phenyl, 3-(1-aminoethyl)phenyl, 3-(2-amino-2-propyl)phenyl, 4-chloro-3-aminophenyl, 4-chloro-3-amidinophenyl, 4-chloro-3-aminomethylphenyl, 4-chloro-3-(methylaminomethyl)phenyl, 4-fluoro-3-aminomethylphenyl, 4-fluoro-3-aminomethylphenyl, 4-fluoro-3-(methylaminomethyl)phenyl, 6-aminopyrid-2-yl, 6-fluoro-3-(methylaminomethyl)phenyl, 6-aminopyrid-2-yl, 6-
- aminocarbonylpyrid-2-yl, 6-(methylaminomethyl)pyrid-2-yl, 6-(1-aminoethyl)pyrid-2-yl, 6-(2-amino-2-propyl)pyrid-2-yl;

amidinopyrid-2-yl, 6-aminomethylpyrid-2-yl, 6-

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A is selected from the group: phenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-Cl-phenyl, 3-Cl-phenyl, 2-F-phenyl, 3-F-phenyl, 2-methylphenyl, 2-aminophenyl, and 2-methoxyphenyl; and,

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- B is selected from the group: 2-CF3-phenyl, 2
 (aminosulfonyl)phenyl, 2-(methylaminosulfonyl)phenyl, 2
 (dimethylaminosulfonyl)phenyl, 1-pyrrolidinocarbonyl, 2
 (methylsulfonyl)phenyl, 4-morpholino, 2-(1'-CF3-tetrazol
 2-yl)phenyl, 4-morpholinocarbonyl, 2-methyl-1-imidazolyl,

 5-methyl-1-imidazolyl, 2-methylsulfonyl-1-imidazolyl and,

 5-methyl-1,2,3-triazolyl.
- 15 [10] In a still further preferred embodiment, the present invention provides a novel compound of formula Ib₁.
- [11] In another still further preferred embodiment, the present invention provides a novel compound of formula Ib2.
 - [12] In another still further preferred embodiment, the present invention provides a novel compound of formula Ib3.

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[13] In another still further preferred embodiment, the present invention provides a novel compound of formula Ib4.

- [14] In another still further preferred embodiment, the present invention provides a novel compound of formula Ic1.
- 35 [15] In another still further preferred embodiment, the present invention provides a novel compound of formula Ic2.

[16] In another even more preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic, wherein;

- D is selected from $C(=NR^8)NR^7R^9$, $C(O)NR^7R^8$, NR^7R^8 , and $CH_2NR^7R^8$, provided that D is substituted meta or para to ring M on E;
- E is phenyl substituted with R or pyridyl substituted with R; 10
 - R is selected from H, Cl, F, OR³, CH₃, CH₂CH₃, OCF₃, and CF₃;
- Z is selected from C(O), CH₂C(O), C(O)CH₂, NHC(O), and C(O)NH, provided that Z does not form a N-N bond with ring M or group A;
- R^{1a} and R^{1b} are independently absent or selected from $-(CH_2)_r-R^{1'}, NCH_2R^{1''}, OCH_2R^{1''}, SCH_2R^{1''}, N(CH_2)_2(CH_2)_tR^{1'},$ $O(CH_2)_2(CH_2)_tR^{1'}, and S(CH_2)_2(CH_2)_tR^{1'}, or combined to form$ 20 a 5-8 membered saturated, partially saturated or
 unsaturated ring substituted with 0-2 R⁴ and which
 contains from 0-2 heteroatoms selected from the group
 consisting of N, O, and S;
- 25 R^{1} ', at each occurrence, is selected from H, C_{1-3} alkyl, halo, $(CF_2)_rCF_3$, OR^2 , NR^2R^{2a} , $C(O)R^{2c}$, $(CF_2)_rCO_2R^{2c}$, $S(O)_pR^{2b}$, $NR^2(CH_2)_rOR^2$, $NR^2C(O)R^{2b}$, $NR^2C(O)_2R^{2b}$, $C(O)NR^2R^{2a}$, $SO_2NR^2R^{2a}$, and $NR^2SO_2R^{2b}$;
- A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R⁴; phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, and imidazolyl;
 - B is selected from: Y, X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, and $NR^2C(=NR^2)NR^2R^{2a}$;

X is selected from CH_2 , $-CR^2(CR^2R^{2b})(CH_2)_t$ -, -C(O)-, -C(=NR)-, $-CH(NR^2R^{2a})$ -, $-C(O)NR^2$ -, $-NR^2C(O)$ -, $-NR^2C(O)NR^2$ -, $-NR^2$ -, and O;

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Y is NR²R^{2a}, provided that X-Y do not form a N-N or O-N bond;

alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};

phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,2 oyodinyl,

oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,4-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, and 1,3,4-triazolyl;

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- R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl substituted with 0-2 R^6 , and benzyl substituted with 0-2 R^6 ;
- 35 R^6 , at each occurrence, is selected from H, =0, OH, OR^2 , Cl, F, CH_3 , CN, NO_2 , $(CH_2)_rNR^2R^{2a}$, $(CH_2)_rC(0)R^{2b}$, $NR^2C(0)R^{2b}$, $CH(=NH)NH_2$, $NHC(=NH)NH_2$, and $SO_2NR^2R^{2a}$;

R⁷, at each occurrence, is selected from H, OH, C₁₋₆ alkyl, C₁₋₆ alkylcarbonyl, C₁₋₆ alkoxy, C₁₋₄ alkoxycarbonyl, benzyl, C₆₋₁₀ aryloxy, C₆₋₁₀ aryloxycarbonyl, C₆₋₁₀ arylmethylcarbonyl, C₁₋₄ alkylcarbonyloxy C₁₋₄ alkoxycarbonyl, C₆₋₁₀ arylcarbonyloxy C₁₋₄ alkoxycarbonyl, C₁₋₆ alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C₁₋₄ alkoxycarbonyl;

- R^8 , at each occurrence, is selected from H, C_{1-6} alkyl and benzyl; and
 - alternatively, R^7 and R^8 combine to form a morpholino group; and,
- 15 R^9 , at each occurrence, is selected from H, C_{1-6} alkyl and benzyl.
- [17] In a another further preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic, wherein;
 - E is phenyl substituted with R or 2-pyridyl substituted with $\mathsf{R};$
 - R is selected from H, Cl, F, OCH3, CH3, OCF3, and CF3;
 - Z is selected from a C(0)CH₂ and C(0)NH, provided that Z does not form a N-N bond with group A;
- 35 R^{1b} is selected from H, CH₃, CH₂CH₃, Cl, F, CF₃, OCH₃, NR²R^{2a}, $S(O)_pR^{2b}$, CH₂S(O)_pR^{2b}, CH₂NR²S(O)_pR^{2b}, C(O)R^{2c}, CH₂C(O)R^{2c}, C(O)NR²R^{2a}, and $SO_2NR^2R^{2a}$;

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A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R4; phenyl, pyridyl, pyrimidyl, furanyl, thiophenyl, pyrrolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, and imidazolyl;

B is selected from: Y and X-Y;

X is selected from CH_2 , $-CR^2(CR^2R^{2b})$ -, -C(O)-, -C(=NR)-, $-CH(NR^2R^{2a})$ -, $-C(O)NR^2$ -, $-NR^2C(O)$ -, $-NR^2C(O)NR^2$ -, $-NR^2$ -, and O;

Y is NR^2R^{2a} , provided that X-Y do not form a N-N or O-N bond;

15 alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};

phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, ovagolyl, isovazolyl, isov

- pyrrolidinyl, oxazolyl, isoxazolyl, isoxazolinyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl,
- 25 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, and 1,3,4-triazolyl;
 - ${\ensuremath{\mathsf{R}}}^2$, at each occurrence, is selected from H, ${\ensuremath{\mathsf{CF}}}_3$, ${\ensuremath{\mathsf{CH}}}_3$, benzyl, and phenyl;
 - R^{2a} , at each occurrence, is selected from H, CF_3 , CH_3 , benzyl, and phenyl;
- R^{2b} , at each occurrence, is selected from CF_3 , OCH_3 , CH_3 , benzyl, and phenyl;
 - R^{2c} , at each occurrence, is selected from CF_3 , OH, OCH_3 , CH_3 , benzyl, and phenyl;

alternatively, R² and R^{2a} combine to form a 5 or 6 membered saturated, partially unsaturated, or unsaturated ring which contains from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

- R^3 , at each occurrence, is selected from H, CH_3 , CH_2CH_3 , and phenyl;
- 10 R^{3a}, at each occurrence, is selected from H, CH₃, CH₂CH₃, and phenyl;
- R^4 , at each occurrence, is selected from OH, Cl, F, CH₃, CH_2CH_3 , NR^2R^{2a} , $CH_2NR^2R^{2a}$, $C(O)R^{2b}$, $NR^2C(O)R^{2b}$, $C(O)NR^2R^{2a}$, and CF_3 ;
 - R^{4a} , at each occurrence, is selected from OH, Cl, F, CH₃, CH_2CH_3 , NR^2R^{2a} , $CH_2NR^2R^{2a}$, $C(O)R^{2b}$, $C(O)NR^2R^{2a}$, $SO_2NR^2R^{2a}$, $S(O)_D\dot{R}^5$, CF_3 , and 1-CF₃-tetrazol-2-yl;
- 20 R^5 , at each occurrence, is selected from CF3, C₁₋₆ alkyl, phenyl substituted with 0-2 R^6 , and benzyl substituted with 1 R^6 ;
- 25 R^6 , at each occurrence, is selected from H, OH, OCH₃, Cl, F, CH₃, CN, NO₂, NR²R^{2a}, CH₂NR²R^{2a}, and SO₂NR²R^{2a};
- R⁷, at each occurrence, is selected from H, OH, C₁₋₃ alkyl, C₁₋₃ alkylcarbonyl, C₁₋₃ alkoxy, C₁₋₄ alkoxycarbonyl, benzyl, phenoxy, phenoxycarbonyl, benzylcarbonyl, C₁₋₄ alkylcarbonyloxy C₁₋₄ alkoxycarbonyl, phenylcarbonyloxy C₁₋₄ alkoxycarbonyl, C₁₋₆ alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C₁₋₄ alkoxycarbonyl;
- 35 R⁸, at each occurrence, is selected from H, CH₃, and benzyl; and,
 - alternatively, R^7 and R^8 combine to form a morpholino group;

 R^9 , at each occurrence, is selected from H, CH_3 , and benzyl.

- 5 [18] In a another still further preferred embodiment, the present invention provides novel compounds of formulae Ib and Ic, wherein;
- R^{1a} is absent or is selected from H, CH₃, CH₂CH₃, Cl, F, CF₃, OCH₃, NR²R^{2a}, S(O)_pR^{2b}, C(O)NR²R^{2a}, CH₂S(O)_pR^{2b}, CH₂NR²S(O)_pR^{2b}, C(O)R^{2c}, CH₂C(O)R^{2c}, and SO₂NR²R^{2a};
- R^{1b} is absent or is selected from H, CH₃, CH₂CH₃, Cl, F, CF₃, OCH₃, NR²R^{2a}, S(O)_pR^{2b}, C(O)NR²R^{2a}, CH₂S(O)_pR^{2b}, CH₂NR²S(O)_pR^{2b}, C(O)R^{2b}, CH₂C(O)R^{2b}, and SO₂NR²R^{2a};
 - A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R4; phenyl, pyridyl, and pyrimidyl;

- B is selected from: Y and X-Y;
- X is selected from -C(O) and O;
- Y is NR^2R^{2a} , provided that X-Y do not form a O-N bond;
 - alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};
- phenyl, piperazinyl, pyridyl, pyrimidyl,
 morpholinyl, pyrrolidinyl, imidazolyl, and 1,2,3triazolyl;
- R^2 , at each occurrence, is selected from H, CF₃, CH₃, benzyl, and phenyl;
 - R^{2a} , at each occurrence, is selected from H, CF_3 , CH_3 , benzyl, and phenyl;

 R^{2b} , at each occurrence, is selected from CF_3 , OCH_3 , CH_3 , benzyl, and phenyl;

- 5 R^{2c} , at each occurrence, is selected from CF_3 , OH, OCH_3 , CH_3 , benzyl, and phenyl;
 - alternatively, R² and R^{2a} combine to form a ring system selected from pyrrolidinyl, piperazinyl and morpholino;
- R^4 , at each occurrence, is selected from Cl, F, CH_3 , NR^2R^{2a} , and CF_3 ;
- R^{4a} , at each occurrence, is selected from Cl, F, CH₃, $SO_2NR^2R^{2a}$, $S(O)_pR^5$, and CF_3 ; and,

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- R^5 , at each occurrence, is selected from CF_3 and CH_3 .
- 20 [19] Specifically preferred compounds of the present invention invention is selected from the group:
 - 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(hydroxymethyl)isoxazole;
 - 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-methylsulfonyl-[1,1']-biphen-4-30 yl)aminocarbonyl]isoxazole;
 - 3-(3-amidinophenyl)-4-[5-(2-aminosulfonyl)phenylpyrid-2-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole;
- 35 3-(3-amidinophenyl)-4-[(2'-trifluoromethyl-[1,1']-biphen-4yl)aminocarbonyl]isoxazole;

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3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(trifluoromethyl)isoxazole;

2-acetylamino-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
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- 2-amino-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']biphen-4-yl)aminocarbonyl]thiazole;
- 2-methyl-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']biphen-4-yl)aminocarbonyl]thiazole;
 - 5-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]oxazole;
- 3-(3-amidinophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-20 yl)aminocarbonyl]-5-(methoxymethyl)-isoxazole;
 - 3-(3-amidinophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]-5-(methoxymethyl)isoxazole;
 - 2-methyl-4-(3-amidinophenyl)-5-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
 - 2-phenyl-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 3-(3-amidinophenyl)-4-[(3-fluoro-2'-methylsulfonyl-[1,1']-35 biphen-4-yl)aminocarbonyl]isoxazole;
 - 3-(3-amidinophenyl)-4-[(2'-trifluoromethylthio-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;

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3-(3-\text{amidinophenyl})-5-\text{amino}-4-[(2'-\text{aminosulfonyl}-[1,1']-
          biphen-4-yl)aminocarbonyl]isoxazole;
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     2-(phenylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-
          [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
     2-(benzylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-
          [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
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     2-(methylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-
          [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
     2-(methylamino)-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-
15
          [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
     2-methyl-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-
          yl)pyridin-2-yl]aminocarbonyl]thiazole;
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     2-methyl-4-(3-(carboxamido)phenyl)-5-[[5-(2'-
          aminosulfonylphenyl-1-yl)pyridin-2-
          yl]aminocarbonyl]thiazole;
     2-(3-pyridyl)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-
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          biphen-4-yl)aminocarbonyl]thiazole;
    2-(3-pyridyl)-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-
          [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
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    2-chloro-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-
         biphen-4-yl)aminocarbonyl]thiazole;
    2-chloro-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-
         biphen-4-yl)aminocarbonyl]thiazole;
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    2-chloro-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-
         yl)pyridin-2-yl]aminocarbonyl]thiazole;
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2-chloro-4-(3-(carboxamido)phenyl)-5-[[5-(2'-
aminosulfonylphenyl-1-yl)pyridin-2-
yl]aminocarbonyl]thiazole;
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- 5 2-hydroxy-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole;
 - 2-chloro-4-(3-aminophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;

2-amino-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl[1,1']-biphen-4-yl)aminocarbonyl]thiazole;

- 2-chloro-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl-15 [1,1']-biphen-4-yl)aminocarbonyl]thiazole; and,
 - 2-amino-4-[(3-aminomethyl)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 20 and a pharmaceutically acceptable salt thereof.

In a second embodiment, the present invention provides novel pharmaceutical compositions, comprising: a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt form thereof.

In a third embodiment, the present invention provides a novel method for treating or preventing a thromboembolic disorder, comprising: administering to a patient in need thereof a therapeutically effective amount of a compound of formula (I) or a pharmaceutically acceptable salt form thereof.

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DEFINITIONS

The compounds herein described may have asymmetric centers. Compounds of the present invention containing an

asymmetrically substituted atom may be isolated in optically active or racemic forms. It is well known in the art how to prepare optically active forms, such as by resolution of racemic forms or by synthesis from optically active starting materials. Many geometric isomers of olefins, C=N double bonds, and the like can also be present in the compounds described herein, and all such stable isomers are contemplated in the present invention. Cis and trans geometric isomers of the compounds of the present invention are described and may 10 be isolated as a mixture of isomers or as separated isomeric All chiral, diastereomeric, racemic forms and all geometric isomeric forms of a structure are intended, unless the specific stereochemistry or isomeric form is specifically indicated.

The term "substituted," as used herein, means that any one or more hydrogens on the designated atom is replaced with a selection from the indicated group, provided that the designated atom's normal valency is not exceeded, and that the substitution results in a stable compound. When a substitute is keto (i.e., =0), then 2 hydrogens on the atom are replaced.

When any variable (e.g., R^6) occurs more than one time in any constituent or formula for a compound, its definition at each occurrence is independent of its definition at every other occurrence. Thus, for example, if a group is shown to be substituted with 0-2 R^6 , then said group may optionally be substituted with up to two R^6 groups and R^6 at each occurrence is selected independently from the definition of R^6 . Also, combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

When a bond to a substituent is shown to cross a bond connecting two atoms in a ring, then such substituent may be bonded to any atom on the ring. When a substituent is listed without indicating the atom via which such substituent is bonded to the rest of the compound of a given formula, then such substituent may be bonded via any atom in such substituent. Combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

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As used herein, "C1-6 alkyl" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms, examples of which include, but are not limited to, methyl, ethyl, n-propyl, i-propyl, n-butyl, i-butyl, sec-butyl, t-butyl, pentyl, and hexyl; "Alkenyl" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more unsaturated carbon-carbon bonds which may occur in any stable point along the chain, such as ethenyl, propenyl, and the like.

"Halo" or "halogen" as used herein refers to fluoro, chloro, bromo, and iodo; and "counterion" is used to represent a small, negatively charged species such as chloride, bromide, hydroxide, acetate, sulfate, and the like.

As used herein, "carbocycle" or "carbocyclic residue" is intended to mean any stable 3- to 10-membered monocyclic or bicyclic or 7- to 13-membered bicyclic or tricyclic, any of which may be saturated, partially unsaturated, or aromatic. Examples of such carbocycles include, but are not limited to, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, adamantyl, cyclooctyl, [3.3.0]bicyclooctane, [4.3.0]bicyclooctane, [4.4.0]bicyclodecane (decalin), [2.2.2]bicyclooctane, fluorenyl, phenyl, naphthyl, indanyl, adamantyl, or tetrahydronaphthyl (tetralin).

25 As used herein, the term "heterocycle" or "heterocyclic system" is intended to mean a stable 5- to 7- membered monocyclic or bicyclic or 7- to 10-membered bicyclic heterocyclic ring which is saturated partially unsaturated or unsaturated (aromatic), and which consists of carbon atoms and 30 from 1 to 4 heteroatoms independently selected from the group consisting of N, O and S and including any bicyclic group in which any of the above-defined heterocyclic rings is fused to a benzene ring. The nitrogen and sulfur heteroatoms may optionally be oxidized. The heterocyclic ring may be attached 35 to its pendant group at any heteroatom or carbon atom which results in a stable structure. The heterocyclic rings described herein may be substituted on carbon or on a nitrogen atom if the resulting compound is stable. If specifically

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noted, a nitrogen in the heterocycle may optionally be quaternized. It is preferred that when the total number of S and O atoms in the heterocycle exceeds 1, then these heteroatoms are not adjacent to one another. It is preferred that the total number of S and O atoms in the heterocycle is not more than 1. As used herein, the term "aromatic heterocyclic system" is intended to mean a stable 5- to 7-membered monocyclic or bicyclic or 7- to 10-membered bicyclic heterocyclic aromatic ring which consists of carbon atoms and from 1 to 4 heterotams independently selected from the group consisting of N, O and S. It is preferred that the total number of S and O atoms in the aromatic heterocycle is not more than 1.

Examples of heterocycles include, but are not limited to, 15 1H-indazole, 2-pyrrolidonyl, 2H,6H-1,5,2-dithiazinyl, 2Hpyrrolyl, 3H-indolyl, 4-piperidonyl, 4aH-carbazole, 4Hquinolizinyl, 6H-1,2,5-thiadiazinyl, acridinyl, azocinyl, benzimidazolyl, benzofuranyl, benzothiofuranyl, benzothiophenyl, benzoxazolyl, benzthiazolyl, benztriazolyl, 20 benztetrazolyl, benzisoxazolyl, benzisothiazolyl, benzimidazalonyl, carbazolyl, 4aH-carbazolyl, β-carbolinyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, 2H,6H-1,5,2-dithiazinyl, dihydrofuro[2,3-b]tetrahydrofuran, furanyl, furazanyl, imidazolidinyl, imidazolinyl, imidazolyl, 1H-25 indazolyl, indolenyl, indolinyl, indolizinyl, indolyl, isobenzofuranyl, isochromanyl, isoindazolyl, isoindolinyl, isoindolyl, isoquinolinyl isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxadiazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-30 oxadiazolyl, 1,3,4-oxadiazolyl, oxazolidinyl., oxazolyl, oxazolidinylperimidinyl, phenanthridinyl, phenanthrolinyl, phenarsazinyl, phenazinyl, phenothiazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, pteridinyl, piperidonyl, 4-piperidonyl, pteridinyl, purinyl, 35 pyranyl, pyrazinyl, pyrazolidinyl, pyrazolinyl, pyrazolyl, pyridazinyl, pyridooxazole, pyridoimidazole, pyridothiazole, pyridinyl, pyridyl, pyrimidinyl, pyrrolidinyl, pyrrolinyl,

pyrrolyl, quinazolinyl, quinolinyl, 4H-quinolizinyl,

quinoxalinyl, quinuclidinyl, carbolinyl, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydroquinolinyl, 6H-1,2,5thiadiazinyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5thiadiazolyl, 1,3,4-thiadiazolyl, thianthrenyl, thiazolyl, 5 thienyl, thienothiazolyl, thienooxazolyl, thienoimidazolyl, thiophenyl, triazinyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, xanthenyl. Preferred heterocycles include, but are not limited to, pyridinyl, furanyl, thienyl, pyrrolyl, pyrazolyl, imidazolyl, indolyl, 10 benzimidazolyl, 1H-indazolyl, oxazolidinyl, benzotriazolyl, benzisoxazolyl, oxindolyl, benzoxazolinyl, or isatinoyl. Also included are fused ring and spiro compounds containing, for example, the above heterocycles.

The phrase "pharmaceutically acceptable" is employed

herein to refer to those compounds, materials, compositions,
and/or dosage forms which are, within the scope of sound
medical judgment, suitable for use in contact with the tissues
of human beings and animals without excessive toxicity,
irritation, allergic response, or other problem or

complication, commensurate with a reasonable benefit/risk
ratio.

As used herein, "pharmaceutically acceptable salts" refer to derivatives of the disclosed compounds wherein the parent compound is modified by making acid or base salts thereof. 25 Examples of pharmaceutically acceptable salts include, but are not limited to, mineral or organic acid salts of basic residues such as amines; alkali or organic salts of acidic residues such as carboxylic acids; and the like. pharmaceutically acceptable salts include the conventional 30 non-toxic salts or the quaternary ammonium salts of the parent compound formed, for example, from non-toxic inorganic or organic acids. For example, such conventional non-toxic salts include those derived from inorganic acids such as hydrochloric, hydrobromic, sulfuric, sulfamic, phosphoric, 35 nitric and the like; and the salts prepared from organic acids such as acetic, propionic, succinic, glycolic, stearic, lactic, malic, tartaric, citric, ascorbic, pamoic, maleic, hydroxymaleic, phenylacetic, glutamic, benzoic, salicylic,

sulfanilic, 2-acetoxybenzoic, fumaric, toluenesulfonic, methanesulfonic, ethane disulfonic, oxalic, isethionic, and the like.

The pharmaceutically acceptable salts of the present 5 invention can be synthesized from the parent compound which contains a basic or acidic moiety by conventional chemical methods. Generally, such salts can be prepared by reacting the free acid or base forms of these compounds with a stoichiometric amount of the appropriate base or acid in water 10 or in an organic solvent, or in a mixture of the two; generally, nonaqueous media like ether, ethyl acetate, ethanol, isopropanol, or acetonitrile are preferred. Lists of suitable salts are found in Remington's Pharmaceutical Sciences, 17th ed., Mack Publishing Company, Easton, PA, 1985, 15 p. 1418, the disclosure of which is hereby incorporated by reference.

"Prodrugs" are intended to include any covalently bonded carriers which release the active parent drug according to formula (I) in vivo when such prodrug is administered to a 20 mammalian subject. Prodrugs of a compound of formula (I) are prepared by modifying functional groups present in the compound in such a way that the modifications are cleaved, either in routine manipulation or in vivo, to the parent compound. Prodrugs include compounds of formula (I) wherein a 25 hydroxy, amino, or sulfhydryl group is bonded to any group that, when the prodrug or compound of formula (I) is administered to a mammalian subject, cleaves to form a free hydroxyl, free amino, or free sulfhydryl group, respectively. Examples of prodrugs include, but are not limited to, acetate, 30 formate and benzoate derivatives of alcohol and amine functional groups in the compounds of formula (I), and the Preferred prodrugs are amidine prodrugs wherein D is $C(=NR^7)NH_2$, and R^7 is selected from OH, C_{1-4} alkoxy, C_{6-10} aryloxy, C_{1-4} alkoxycarbonyl, C_{6-10} aryloxycarbonyl, C_{6-10} 35 arylmethylcarbonyl, C_{1-4} alkylcarbonyloxy C_{1-4} alkoxycarbonyl, and C_{6-10} arylcarbonyloxy C_{1-4} alkoxycarbonyl. More preferred prodrugs are where R7 is OH, methoxy, ethoxy,

benzyloxycarbonyl, methoxycarbonyl, and methylcarbonyloxymethoxycarbonyl.

"Stable compound" and "stable structure" are meant to indicate a compound that is sufficiently robust to survive isolation to a useful degree of purity from a reaction mixture, and formulation into an efficacious therapeutic agent.

SYNTHESIS

10 The compounds of the present invention can be prepared in a number of ways known to one skilled in the art of organic synthesis. The compounds of the present invention can be synthesized using the methods described below, together with synthetic methods known in the art of synthetic organic 15 chemistry, or by variations thereon as appreciated by those skilled in the art. Preferred methods include, but are not limited to, those described below. The reactions are performed in a solvent appropriate to the reagents and materials employed and suitable for the transformations being 20 effected. It will be understood by those skilled in the art of organic synthesis that the functionality present on the molecule should be consistent with the transformations proposed. This will sometimes require a judgment to modify the order of the synthetic steps or to select one particular 25 process scheme over another in order to obtain a desired compound of the invention. It will also be recognized that another major consideration in the planning of any synthetic route in this field is the judicious choice of the protecting group used for protection of the reactive functional groups 30 present in the compounds described in this invention. authoritative account describing the many alternatives to the trained practitioner is Greene and Wuts (Protective Groups In Organic Synthesis, Wiley and Sons, 1991). All references cited herein are hereby incorporated in their entirety herein 35 by reference.

Schemes 1-4 describe the synthesis of compounds wherein M is furan and Q is a protected precursor of group D of formula I. Each scheme represents a different substitution pattern

for the furan ring. In Scheme 1, an alpha-substituted carboxylic acid, wherein V is a nitro, protected sulfonamide or ester group, can be treated with two equivalents of base to activate it, quenched with an appropriate aldehyde

5 electrophile as described by Wierenga (J. Org. Chem., 44(2), 310, 1979) and then oxidized by pyridinium dichromate to a ketone. Treatment with base and acetic anhydride should give the enol acetate which can react with a vinyl sulfoxide to give a dihydrofuran as shown by Chan (J. Chem. Soc., Perkins 10 Trans. 1 1992, 945). This sulfoxide can then be oxidized and eliminated to give the desired furan.

Scheme 1

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In Scheme 2, the readily available bromides Q-E-Br are coupled to a terminal acetylene, to give a disubstituted alkyne as shown by Padwa (J. Org. Chem. 1991, 56(7), 2523). Also shown in Scheme 2, a carboxylic acid can be homologated into a ketone and then converted into a diazoketone. Rhodium catalyzed cyclization can provide the desired furan as in Davies (Tetrahedron 1988, 44(11), 3343).

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Scheme 2

Addition of a grignard reagent to the appropriate aldehyde, oxidation and 0-methylation should give the required enol ether as shown in Scheme 3. Diazoketone formation of the acetyl derivative, AcW, and copper catalyzed cyclization can be done like Alonos (*J. Org. Chem.* 1991, 56(7), 2523) followed by standard deprotection should give the desired furan.

Scheme 3

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Q CHO
$$\frac{1) \quad R^{1a}Br, \quad Mg}{2) \quad PCC}$$
3) $Me_3O^+ \quad BF_4^ W$
 $\frac{1) \quad Cu(acac)_2}{2) \quad deprotection}$
 W
 R^{1a}
 W

Scheme 4 describes a synthesis of a different substitution pattern on a furan ring. The carboxylic acid from above can be converted into a ketone in a two-step process by conversion to the activated acid chloride and reacting with a cuprate (Tetr. Lett. 1971, 829). Piperidine-catalyzed condensation with an appropriate aldehyde should give the unsaturated ketone as shown by Taylor (J. Het. Chem. 1989, 26, 1353). Conjugate addition of a dithiane to the unsaturated ketone should give the required substitution pattern. N-bromosuccinimide deprotection of the dithiane followed by acid-catalyzed cyclization can provide the furan.

Scheme 4

Schemes 5 and 6 describe the synthesis of compounds wherein ring M is thiophene. The appropriate aldehyde in Scheme 5 can be oxidized to a carboxylic acid and converted to an acid chloride. Reaction of this acid chloride with methyl ketone and lithium bis(trimethylsilyl)amide as shown by

Cushman (Tetr. Lett. 1990, 45, 6497). Further treatment with diazomethane can provide a mixture of two regioisomers which need not be separated at this time. Treatment of the commercially available bromide with sodium sulfide followed by the unsaturated ketone should give a mixture of thiophene

regioisomers which can be separated according to Alberola (Synth. Comm. 1990, 20, 2537).

Scheme 5

Q CHO 1) PDC Q COC1 LHMDS O O CH₂N₂

$$Q = CHO \qquad 2) \quad (COC1)_{2} \qquad COC1 \qquad R^{1a} \qquad Q \qquad R^{1a} \qquad R^{1} \qquad CH_{2}N_{2}$$

$$Q = \qquad Na_{2}S \qquad Na_{2}S \qquad Q \qquad R^{1a} \qquad Q \qquad Q \qquad Q$$

$$Q = \qquad Na_{2}S \qquad Na_{2}S \qquad Q \qquad Q \qquad Q \qquad Q \qquad Q$$

$$Q = \qquad Na_{2}S \qquad Q \qquad Q$$

Alternatively, in Scheme 6, ethyl acetate can be diazotized by tosyl azide and carbene insertion into the E-Br bond as in D'yakonov (*J. Gen. Chem. USSR*, **1951**, *21*, 851).

Nucleophilic displacement with a thiocarboxylic acid (Org. Syn. Coll. 1963, 4, 924) should give the appropriate carboxylic acid after basic hydrolysis as shown by Masuda (Chem. Pharm. Bull. 1977, 25, 1471). Reaction with a disubstituted alkyne with trifluoroacetic anhydride can give a mixture of regioisomers. By analogy switching the position of V and Q-E in the reagents can give a different set of regioisomers.

10 Scheme 6

EtOAc
$$\frac{1) \quad \text{TsN}_3}{2) \quad \text{Cu, CuSO}_4} \quad \mathbb{Q} = \begin{array}{c|c} & \mathbb{R}^{1b} - \mathbb{COSH} \\ \hline & \mathbb{R}^{1b} - \mathbb{COSH} \\ \hline & \mathbb{R}^{1b} + \mathbb{R}^{1a} - \mathbb{CO}_2 \\ \hline & \mathbb{R}^{1b} + \mathbb{R}^{1a} - \mathbb{CO}_2 \\ \hline & \mathbb{R}^{1b} + \mathbb{R}^{1a} \\ \hline & \mathbb{R}^{1$$

Schemes 7 and 8 provide routes to compounds of Formula I
wherein ring M is isoxazole. Scheme 7 shows one possible
synthesis of isoxazoles. Substituted benzaldehydes can be
reacted with hydroxyl amine then chlorinated to give the
hydroximinoyl chloride (see J. Org. Chem. 1980, 45, 3916).
Preparation of the nitrile oxide in situ with triethylamine
and cycloaddition with a substituted alkyne can give a mixture
of regioisomeric isoxazoles as shown by H. Kawakami (Chem.
Lett. 1987, 1, 85). Preparation of the disubstituted alkyne
can be achieved by nucleophilic attack of the alkynyl anion on
an electrophile as shown by L. N. Jungheim (J. Org. Chem.

1987, 57, 4007). Alternatively, one could make the

hydroxyiminoyl chloride of the R^{1a} piece and react it with an appropriately substituted alkyne to give another set of regioisomeric isoxazoles which can be separated chromatographically.

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Scheme 7

Q CHO
$$\frac{1) \text{ NH}_2\text{OH}}{2) \text{ NCS},}$$
 Cat. HCl $\frac{Q}{E}$ Cl $\frac{R^{1a}}{Et_3N}$ Q $\frac{Q}{E}$ $\frac{Q}{V}$ $\frac{Q}{E}$ $\frac{Q}{R^{1a}}$ $\frac{Q}{V}$ $\frac{Q}{V}$

An alternate procedure which should produce only one isoxazole regioisomer is described in Scheme 8. The methylated form of substituent V can be deprotonated and silylated. Chlorination with carbon tetrachloride or fluorination with difluorodibromomethane under triethylborane catalysis can give the geminal dihalo compound as shown by Sugimoto (Chem. Lett. 1991, 1319). Cuprate-mediated conjugate addition-elimination give the desired alkene as in Harding (J. Org. Chem. 1978, 43, 3874).

Alternatively, one can acylate with an acid chloride to
form a ketone as in Andrews (Tetr. Lett. 1991, 7731) followed
by diazomethane to form the enol ether. Each of these
compounds can be reacted with a hydroximinoyl chloride in the
presence of triethylamine to give one regioisomeric isoxazole
as shown by Stevens (Tetr. Lett. 1984, 4587).

Scheme 8

$$V = \frac{1) \text{ LDA}}{3) \text{ CCl}_4 \text{ or } \text{CF}_2\text{Br}_2} V = \frac{(R_1)_2\text{CuLi}}{R} \times \frac{R^{1a}}{R} \times \frac{R^{1a}}{R}$$

The following is a reaction grid for the synthesis of the Z linkage. The following coupling reaction would be readily known to those skilled in the art of organic synthesis.

When Z =

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BNSDOCID: <WO 9828282A2 1 >

10 **CONH** then use $V = CO_2CH_3$ and $W = NH_2$ under AlMe₃ catalysis

SO₂NH then make heterocycle after sulfonamide formation

 ${\bf CH_2NH}$ then reduce V = ${\bf CO_2CH_3}$ with DIBAL to ${\bf CH_2OH}$ and couple with W = ${\bf NH_2}$ using ${\bf PPh_3}$

15 CH_2S then reduce $V = CO_2CH_3$ with DIBAL to CH_2OH and couple with W = SH using MsCl

 CH_2O then reduce $V = CO_2CH_3$ with DIBAL to CH_2OH and couple with W = OH using PPh_3

NHCO then reduce $V = NO_2$ to NH_2 using H_2/Pd and couple with $W = CO_2CH_3$ using AlMe₃

 $NHSO_2$ then reduce $V = NO_2$ to NH_2 using H_2/Pd and couple with $W = SO_2C1$

 $NHCH_2$ then reduce V = NO_2 to NH_2 using H_2/Pd and couple with W = CH_2Br

 $\mathbf{OCH_2}$ then reduce, then diazotize $V = NO_2$ and couple with $W = CH_2Br$

SCH₂ then reduce $V = SO_2NR_2$ with LAH and couple with $W = CH_2Br$.

To complete the final reaction sequence, substituent Q 30 can be deprotected or reacted to give an amine or amide. The

amine can converted into an amidine, guanidine or formamidine under standard conditions as outline in Scheme 9. From the nitrile, imididate formation followed by amination with ammonium carbonate can provide the amidine.

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Scheme 9

The compounds of Formula I in which ring M is thiazole or oxazole can be prepared as outlined in Schemes 10-16 wherein, Re and Rf can be Z-A-B or Rla or precursors thereof. There are numerous methods by which to prepare and manipulate substituted thiazole and oxazole rings (for reviews, see Comprehensive Heterocyclic Chemistry, Katritzky and Rees, eds. 1984, 6, 247 and Chem. Het. Cmpds. 1979, 34-2, 1). One particularly useful method for preparing thiazole and oxazole containing compounds of the present invention is the Hantzsch method, which involves condensation of α-haloketones with thioamides, thioureas, amides and ureas.

As shown in Scheme 10, an appropriate ketone can be brominated by a variety of electrophilic brominating reagents such as pyridinium bromide perbromide, NBS, etc. to afford an α -bromoketone. Heating with a wide variety of substituted thioamides and thioureas, and amides and ureas can afford thiazole and oxazole derivatives. Regioisomeric thiazoles and oxazoles can be prepared by a similar reaction sequence beginning with a similar ketone. The ketones in Scheme 10 are readily available by procedures familiar to those skilled in the art of organic synthesis. The functionality Q can later

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be transformed into the group D found in compounds of Formula I.

The thioamides are either commercially available or can be prepared from the corresponding amides using Lawesson's reagent or phosphorous pentasulfide. They can also be prepared and cyclized in situ by performing the cyclization reaction with the corresponding amide in the presence of phosphorous pentasulfide. The thioureas are either commercially available or are readily prepared from other commercially available thioureas. The amides and ureas are either commercially available or are readily prepared by procedures known to those skilled in the art.

Scheme 10

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In Scheme 11 is shown how α -acylaminoketones can be converted into oxazoles by dehydration with an acid such as sulfuric acid. Treating with phosphorous pentasulfide can afford thiazoles. The starting materials are prepared by standard methods known to those skilled in the art.

Scheme 11

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Oxazoles can also be prepared by the cyclization strategy shown in Scheme 12. Ketones can be converted into their oxime derivatives by standard treatment with hydroxylamine.

5 Treating these intermediates with acid chlorides can provide the corresponding oxazoles.

Scheme 12

$$Q-E \longrightarrow R^{e} \longrightarrow NH_{2}OH \longrightarrow Q-E \longrightarrow R^{e} \longrightarrow R^{f}-COC1 \longrightarrow R^{e}$$

$$Q-E \longrightarrow R^{e} \longrightarrow NH_{2}OH \longrightarrow Q-E \longrightarrow R^{e} \longrightarrow R^{f}-COC1 \longrightarrow R^{f}$$

2-Unsubstituted oxazoles can be prepared by the cyclization shown in Scheme 13. Treatment of acid chlorides with an isocyanoacetate (wherein Rg can be A-B or a precursor thereof) in the presence of a base such as triethylamine can afford the oxazoles (Suzuki et. al. Syn. Comm. 1972, 2, 237).

Scheme 13

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$$Q-E$$
 $C1$
 CO_2R^g
 $Q-E$
 CO_2R^g

Other cyclization strategies can afford differently substituted thiazoles and oxazoles. In Scheme 14 is shown how cyclizations can be modified to afford 5-aminooxazoles and 4-and 5-aminothiazoles. Treatment of aldehydes with NaCN and ammonium chloride can afford α -aminonitriles (Steiger *Org. Syn. Coll. Vol. III* 1955, 84). Acylation with acid chlorides followed by acid-catalyzed dehydration can afford 5-

aminooxazoles. The bromination of nitriles with bromine can afford α-bromonitriles. These can be treated with a variety of thioamides to afford 4-aminothiazoles. The 5-aminothiazoles can be prepared by elaboration of thiazole carboxylic acids. Formation of the acyl azide by standard methods can be followed by heating to effect a Curtius rearrangement to give the isocyanate (South, *J. Het. Chem.* 1991, 28, 1003). Addition of water can then afford the 5-aminothiazoles.

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Scheme 14

$$Q-E$$
 H
 NH_2
 $Q-E$
 CN
 NH_2
 $Q-E$
 NH_2

solvent, heat

In Scheme 15 is shown how thiazoles and oxazoles with halogen substituents can be prepared. The 2-halo- derivatives can be prepared from the corresponding amino derivatives by diazotization with nitrous acid or isoamyl nitrite followed by displacement with an appropriate halide source such as copper bromide or chloride. The 5-halo- derivatives can be prepared by ring bromination with NBS or Br₂, or chlorination with NCS or Cl₂. Alternatively, the Hunsdiecker procedure (Ber. 1942, 75, 291) can be applied to the 5-carboxylic acid derivatives to prepare the bromides. The 4-halo derivatives can be prepared in the same manner from the regioisomer in which the group Q-E occupies position 5 on the ring.

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Scheme 15

NBS or NCS

$$Q-E$$
 $Q-E$
 R
 $Q-E$
 R
 $Q-E$
 R
 $Q-E$
 R
 $Q-E$
 $Q-E$

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In Scheme 16 is shown how mercapto and sulfonyl derivatives of the thiazoles and oxazoles can be prepared. The 2-mercapto derivatives can be prepared from the corresponding 2-amino heterocycles by diazotization with nitrous acid or isoamyl nitrite followed by reaction with an appropriate thiol. Oxidation of the thiol derivative can afford the sulfonic acid derivatives. The 5-mercapto derivatives can be prepared by thiol displacement of the appropriate 5-bromo derivative. Alternatively, halogen metal exchange of the bromo derivative with n-BuLi followed by quenching with sulfur can afford the required 5-mercapto derivatives. The sulfonyl derivatives are available by oxidation of the mercapto derivatives. In some cases direct sulfonation of the thiazole or oxazole ring can be possible. When R' is an activating group such as amino or alkoxy, treatment with chlorosulfonic acid should give the sulfonyl derivative (Mann et. al. J. Prakt. Chem. 1978, 320, 715). 4-mercapto and sulfonyl derivatives can be prepared in the same manner as shown for the 5-derivatives from the regioisomers in which the group Q-E occupies position 5 on the ring.

Scheme 16

$$Q-E$$
 H
 $C1SO_3H$
 $Q-E$
 SO_3H
 R'
 $Q-E$
 SO_3H

By the cyclization strategies described in Schemes 10-16, and by other strategies not described but familiar to those skilled in the art of organic synthesis, a wide variety of highly substituted thiazoles and oxazoles can be prepared. Proper manipulation of the starting materials for these cyclizations by procedures known to those skilled in the art also allows for the synthesis of oxazoles (Scheme 17, J=0) and thiazoles (Scheme 17, J=S), which are regioisomers of the thiazoles and oxazoles of Scheme 10, containing a wide variety of substituents R^e and R^f which by proper manipulation described in preceeding and following schemes can be converted into R^{1a} and Z-A-B of compounds of Formula I.

Scheme 17

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The present invention also describes compounds of Formula I in which ring M is 1,2,3- and 1,2,5-thiadiazole and 1,2,5-oxadiazole. The following schemes provide methods for synthesizing these heterocycles. In Scheme 18 is shown how 1,2,3-thiadiazoles can be prepared. The ketones from Scheme 10 can be converted by standard procedures into semicarbazones ($R^f = NH_2$) or acylhydrazones ($R^f = alkyl$, alkoxy) which can then be treated with thionyl chloride to prepare the 1,2,3-thiadiazoles (J. Med. Chem. 1985, 28, 442). Alternatively, diazo ketones can be prepared by treatment with base and a suitable diazo transfer reagent such as tosyl azide. Treatment of these diazo intermediates with hydrogen sulfide or Lawesson's reagent can afford the 1,2,3-thiadiazoles.

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Scheme 18

In Scheme 19 is shown how to prepare the 1,2,5-thiadiazoles contained in compounds of Formula I. The disubstituted alkynes, which are readily available by standard alkyne coupling procedures known to those skilled in the art of organic synthesis, can be treated with sulfur nitride in refluxing toluene to afford the 1,2,5-thiadiazoles(*J. Het. Chem.* 1979, 16, 1009).

Scheme 19

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$$Q-E \longrightarrow R^e$$
 N_4S_4 N_4S_4

In Scheme 20 is shown how 1,2,5-oxadiazole heterocycles can be prepared. Diazotization of ketones followed by treatment with hydroxylamine can afford the bisoximes. Alternatively, diketones can be treated with hydroxylamine to afford the bisoximes. Dehydration of these readily prepared intermediates with acetic acid or thionyl chloride can then afford the 1,2,5-oxadiazoles.

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Scheme 20

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In the cyclization sequences and strategies described above, in general the substituents Q-E and Re and Rf can be varied widely. In some cases Re can be chosen so that it corresponds to Z-A-B in Formula I. In other cases Rb can be chosen so that it is hydrogen, carboxylic ester, amino, alkyl, cyano, alkoxy, hydroxy, thioalkoxy, sulfonyl, etc. which can subsequently be converted into the group Z-A-B of Formula I.

In the following schemes are described some methods by which the various groups Z of Formula I can be prepared from various groups Re. In these schemes the heterocycle is denoted as ring M and it is understood that the reactions described will generally be applicable to all of the different heterocycles previously described. It is also understood that the reactions described may require some modification of the reaction conditions, change in the reaction order or suitable protecting groups, depending upon the functionality contained in the compound of interest. One skilled in the art of organic synthesis will understand this and be able to modify the reaction sequence to obtain the desired products.

In Scheme 21 is shown how the heterocyclic compounds from above where Re is a carboxylic ester group can be converted 15 into compounds containing the Z-A-B residue. For the amide linker (Formula I, Z = -CONH-) ring M where $R^e = carboalkoxy$ can be hydrolyzed to the acid. Formation of the acid chloride with thionyl chloride followed by the addition of an appropriate amine H2N-A-B can afford the amide-linked 20 compounds. Alternatively, the acid can be combined with the amine H₂N-A-B in the presence of a suitable peptide coupling agent, such as BOP-Cl, HBTU or DCC to afford the corresponding amides. In another method the ester can be directly coupled with an aluminum reagent, prepared by the 25 addition of trimethylaluminum to the amine H₂N-A-B, to afford the amide. To form ether- and thioether-linked compounds of Formula I ($Z = -CH_2O_-$, $-CH_2S_-$) the acid can be reduced to the alcohol. Preferred procedures for this transformation are reduction with borane THF complex, or a procedure involving 30 the reduction of the mixed anhydride of the acid with sodium borohydride. Completion of the ether and thioether linked compounds of Formula I can be readily accomplished by the Mitsonobu protocol with an appropriate phenol, thiophenol or hydroxy- or mercaptoheterocycle HZ-A-B (Formula I, A = aryl or 35 heteroaryl). Other ethers or thioethers can be prepared following initial conversion of the alcohol to a suitable leaving group, such as tosylate. Where J = S, thioethers can

be further oxidized to prepare the sulfones (Formula I, Z = -

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CH₂SO₂-). To prepare the amine-linked compounds of Formula I (Z = -CH₂NH-) the alcohol can be oxidized to the aldehyde by a number of procedures, two preferred methods of which are the Swern oxidation and oxidation with pyridinium chlorochromate (PCC). Reductive amination of aldehyde with an appropriate 5 amine H2N-A-B and sodium cyanoborohydride can then afford the amine linked compounds. The aldehyde also can be used to prepare the ketone-linked compounds of Formula I $(Z = -COCH_2-)$. Treatment of the aldehyde with an organometallic species can afford the alcohol. The organo metallic species (where M =10 magnesium or zinc) can be best prepared from the corresponding halide by treatment with metallic magnesium or zinc. reagents readily react with aldehydes to afford alcohols. Oxidation of the resulting alcohol by any of a number of 15 procedures, such as the Swern oxidation or PCC oxidation, can afford the ketone.

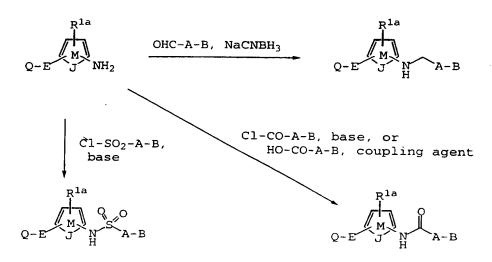
Scheme 21

Additional compounds of Formula I in which the linking group Z contains a nitrogen atom attached to ring M can be prepared by the procedures described in Scheme 22. The amines can be converted to the sulfonamides (Formula I, $Z = -NHSO_2-$) by treatment with an appropriate sulfonyl chloride $B-A-SO_2C1$ in the presence of a base such as triethylamine. The amines can be converted into the amides (Formula I, Z = -NHCO-) by treatment with an appropriate acid chloride C1-CO-A-B in the presence of a base or by treatment with an appropriate carboxylic acid HO-CO-A-B in the presence of a suitable

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peptide coupling agent, such as DCC, HBTU or BOP-Cl. The amine can be converted into amines of Formula I ($Z = -NHCH_2-$) by reductive amination with an appropriate aldehyde OHC-A-B.

5 Scheme 22



Additional compounds of Formula I in which the linking group Z contains a sulfur atom attached to ring M can be prepared by the procedures described in Scheme 23. Treatment of sulfonyls with phosphorous pentachloride followed by treatment with an appropriate amine H₂N-A-B can afford the sulfonamide-linked compounds (Formula I, Z = -SO₂NH-). The thiols can be alkylated with a suitable alkylating reagent in the presence of a base to afford thioethers (Formula I, Z = -SCH₂-). These compounds can be further oxidized by a variety of reagents to afford the sulfone-linked compounds (Formula I, Z = -SO₂CH₂-).

$$Q-E$$
 J
 SO_3H
 $2)$
 H_2N-A-B , base
 $Q-E$
 M
 N
 $A-B$

Compounds of this invention where B is either a carbocyclic or heterocyclic residue as defined in Formula I are coupled to A as shown generically and by specific example in Scheme 24, either or both of A and B may be substituted with 0-2 R⁴. W is defined as a suitable protected nitrogen, such as NO₂ or NHBOC; a protected sulfur, such as S-tBu or SMOM; or a methyl ester. Halogen-metal exchange of the bromine in bromo-B with n-butyl lithium, quenching with triisopropyl borate and acidic hydrolysis should give the required boronic acid, B'-B(OH)2. The W-A-Br subunit may be already linked to ring M before the Susuki coupling reaction. Deprotection can provide the complete subunit.

Scheme 24

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Scheme 25 describes a typical example of how the A-B subunit can be prepared for attachment to ring M. 4-Bromoaniline can be protected as Boc-derivative and the coupled to 2-(t-butylamino)sulfonylphenylboronic acid under

Suzuki conditions. 2-(t-Butylamino)sulfonylphenylboronic acid can be prepared by the method described by Rivero (Bioorg. Med. Chem. Lett. 1994, 189). Deprotection with TFA can provide the aminobiphenyl compound. The aminobiphenyl can then be coupled to the core ring structures as described below.

Scheme 25

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When B is defined as X-Y, the following description applies. Groups A and B are available either through commercial sources, known in the literature or readily synthesized by the adaptation of standard procedures known to practioners skilled in the art of organic synthesis. The required reactive functional groups appended to analogs of A and B are also available either through commercial sources, known in the literature or readily synthesized by the adaptation of standard procedures known to practioners skilled in the art of organic synthesis. In the tables that follow the chemistry required to effect the coupling of A to B is outlined.

Table A: Preparation of Amide, Ester, Urea, Sulfonamide and Sulfamide linkages between A and B.

1		7	
}		then the	to give the
Rxn.		reactive	following product
No.	if A contains :	substituent of	A-X-Y :
<u></u>		Y is:	
1	A-NHR ² as a	ClC(O)-Y	A-NR ² -C(O)-Y
L	substituent		

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2 a secondary NH ClC(O)-Y A-C(O)-Y	
as part of a	
ring or chain	
3 A-OH as a ClC(O)-Y A-O-C(O)-Y	
substituent	
4 A-NHR ² as a $Clc(0)-CR^2R^{2a}-Y$ A-NR ² -C(0)-CR ²	$2a_{-Y}$
substituent	
a secondary NH $ClC(0)-CR^2R^2a-Y$ A-C(0)-CR ² R ² a-Y	7
as part of a	
ring or chain	
6 A-OH as a $ClC(0)-CR^2R^{2a}-Y$ A-O-C(0)- CR^2R^{2a}	1-Y
substituent	
7 A-NHR ³ as a $Clc(0)NR^2-Y$ A-NR ² -C(0)NR ² -Y	
substituent	
8 a secondary NH ClC(0)NR ² -Y A-C(0)NR ² -Y	
as part of a	
ring or chain	
9 A-OH as a $Clc(0)NR^2-Y$ A-O-C(0) NR^2-Y	
substituent	
10 $A-NHR^2$ as a $C1SO_2-Y$ $A-NR^2-SO_2-Y$	
substituent	
11 a secondary NH ClSO2-Y A-SO2-Y	
as part of a	
ring or chain	
12 A-NHR ² as a $C1SO_2-CR^2R^{2a}-Y$ A-NR ² -SO ₂ -CR ² R ²	a_Y
substituent	
13 a secondary NH ClSO ₂ -CR ² R ^{2a} -Y A-SO ₂ -CR ² R ^{2a} -Y	
as part of a	
ring or chain	
14 A-NHR ² as a $C1SO_2-NR^2-Y$ A-NR ² -SO ₂ -NR ² -Y	
substituent	
15 a secondary NH ClSO ₂ -NR ² -Y A-SO ₂ -NR ² -Y	
as part of a	
ring or chain	
16 A-C(O)Cl HO-Y as a A-C(O)-O-Y	
substituent	

	· _ · · · · · · · · · · · · · · · · · ·		
17	A-C(0)Cl	NHR ² -Y as a	$A-C(0)-NR^2-Y$
		substituent	
18	A-C(0)Cl	a secondary NH	A-C(O)-Y
1		as part of a	
		ring or chain	
19	$A-CR^2R^2aC(0)C1$	HO-Y as a	A-CR ² R ² aC (O) -O-Y
		substituent	
20	A-CR ² R ^{2a} C(O)Cl	NHR ² -Y as a	A-CR ² R ² aC(O)-NR ² -Y
		substituent	
21	A-CR ² R ^{2a} C(0)Cl	a secondary NH	A-CR ² R ² aC(O)-Y
		as part of a	
		ring or chain	
22	A-SO ₂ Cl	NHR ² -Y as a	A-SO ₂ -NR ² -Y
		substituent	
23	A-SO ₂ Cl	a secondary NH	A-SO ₂ -Y
		as part of a	
		ring or chain	
24	A-CR ² R ^{2a} SO ₂ Cl	NHR ² -Y as a	A-CR ² R ² aSO ₂ -NR ² -Y
		substituent	1
25	A-CR ² R ^{2a} SO ₂ C1	a secondary NH	A-CR ² R ² aSO ₂ -Y
		as part of a	
		ring or chain	

The chemistry of Table A can be carried out in aprotic solvents such as a chlorocarbon, pyridine, benzene or toluene, at temperatures ranging from -20°C to the reflux point of the solvent and with or without a trialkylamine base.

Table B: Preparation of ketone linkages between A and B.

	Die D. Heparae.	1	
		then the reactive	to give the
Rxn.		substituent of	following product
No.	if A contains :	Y is :	A-X-Y :
1	A-C(0)Cl	BrMg-Y	A-C(O)-Y
2	$A-CR^2R^2aC(0)C1$	BrMg-Y	A-CR ² R ^{2a} 2C(O)-Y
3	A-C(0)Cl	BrMgCR ² R ² a_Y	A-C(0)CR ² R ² a-Y
4	A-CR ² R ^{2a} C(0)Cl	BrMgCR ² R ² a_Y	A-CR ² R ² aC (0) CR ² R ² a-
			Y

The coupling chemistry of Table B can be carried out by a variety of methods. The Grignard reagent required for Y is prepared from a halogen analog of Y in dry ether, dimethoxyethane or tetrahydrofuran at 0°C to the reflux point of the solvent. This Grignard reagent can be reacted directly under very controlled conditions, that is low temeprature (-20°C or lower) and with a large excess of acid chloride or with catalytic or stoichiometric copper bromide • dimethyl 10 sulfide complex in dimethyl sulfide as a solvent or with a variant thereof. Other methods available include transforming the Grignard reagent to the cadmium reagent and coupling according to the procedure of Carson and Prout (Org. Syn. Col. Vol. 3 (1955) 601) or a coupling mediated by Fe(acac)3 15 according to Fiandanese et al (Tetrahedron Lett., (1984) 4805), or a coupling mediated by manganese (II) catalysis (Cahiez and Laboue, Tetrahedron Lett., 33(31), (1992) 4437).

Table C: Preparation of ether and thioether linkages between

A and B			
		then the reactive	to give the
Rxn.		substituent of	following
No.	if A contains :	Y is :	product A-X-Y:
1	A-OH	Br-Y	A-O-Y
2	A-CR ² R ^{2a} -OH	Br-Y	A-CR ² R ² aO-Y
3	A-OH	Br-CR ² R ² a-Y	A-OCR ² R ² a-Y
4	A-SH	Br-Y	A-S-Y
5	A-CR ² R ^{2a} -SH	Br-Y	A-CR ² R ² as-Y
6	A-SH	Br-CR ² R ² a-Y	A-SCR ² R ² a-Y

The ether and thioether linkages of Table C can be

5 prepared by reacting the two components in a polar aprotic solvent such as acetone, dimethylformamide or dimethylsulfoxide in the presence of a base such as potassium carbonate, sodium hydride or potassium t-butoxide at temperature ranging from ambient temperature to the reflux point of the solvent used.

Table D: Preparation of -SO- and -SO2- linkages from thioethers of Table 3.

			
			and it is oxidized
ļ		and it is oxidized	with m-chloroper-
		with Alumina (wet)/	benzoic acid (Satoh
ļ	if the	Oxone (Greenhalgh,	et al., Chem. Lett.
Rxn.	starting	Synlett, (1992) 235)	(1992) 381), the
No.	matérial is :	the product is :	product is:
1	A-S-Y	A-S(O)-Y	A-SO2-Y
2	A-CR ² R ² as-Y	$A-CR^2R^2aS(O)-Y$	A-CR ² R ² a _{SO2} -Y
3	$A-SCR^2R^2a_{-Y}$	A-S(0)CR ² R ² a-Y	A-SO2CR2R2a-Y

The thioethers of Table C serve as a convenient starting material for the preparation of the sulfoxide and sulfone analogs of Table D. A combination of wet alumina and oxone can provide a reliable reagent for the oxidation of the

thioether to the sulfoxide while m-chloroperbenzoic acid oxidation will give the sulfone.

Other features of the invention will become apparent in the course of the following descriptions of exemplary embodiments which are given for illustration fo the invention and are not intended to be limiting thereof.

EXAMPLES

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Example 1

3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(hydroxymethyl)isoxazole, trifluoroacetic acid salt

Part A. Preparation of 2-(t-butylaminosulfonyl)phenylboronic acid.

To a solution of 206.5 g (0.968 mol) of benzene-(N-tbutyl)sulfonamide in 2500 mL of THF under N_2 was added 790 mL 20 (1.98 mol) of 2.5M n-butyllithium in hexane over 35 minutes, keeping the temperature between 0-5°C. The reaction mixture was allowed to warm to 10°C, at which time a thick precipitate formed. Triisopropylborate (305 mL, 1.32 mol) was added keeping the temperature below 35°C. After 1 hour, the 25 reaction mixture was cooled , 1N HCl (1570 mL) was added, and the mixture was stirred overnight. The mixture was extracted with 400 mL of ether three times, and the combined organic extracts were extracted with 500 mL of 1N NaOH three times. The aqueous extracts were acidified to pH 1 with 6N HCl, and 30 then extracted with 500 mL ether three times. The combined ether extracts were dried over MgSO4, and the solvents evaporated in vacuo until the volume was 700 mL. Hexane (150 mL) was added and overnight, a white precipitate formed. solid was collected and washed with 10% ether/hexane (250 mL), then dried in vacuo to give 216.3 g (87%) of the desired 35 compound as white crystals. m.p. 118-119°C ¹H NMR (CDCl₃) δ: 8.00 (d, 1H); 7.82 (d, 1H); 7.53 (m, 2H); 6.29 (br s, 2H); 5.13 (s, 1H); 1.18 (s, 9H).

Part B. Preparation of N-(4-bromophenyl)-4-(tetrahydropyran-2-yloxymethyl)-2-butynamide.

5 To a solution of 4.98 g (35.5 mmol) of tetrahydro-2-(2propynyloxy)-2H-pyran in 70 mL of THF under N_2 was added 14.2 mL (35.5 mmol) of 2.5 M n-butyllithium in hexane. minutes, 7.03 g (35.5 mmol) of 4-bromophenylisocyanate was added and then the reaction was allowed to warm to room 10 Saturated aqueous ammonium chloride (20 mL) was temperature. added and the mixture extracted with 30 mL ethyl acetate three The combined organic extracts were dried with MgSO₄, concentrated to an oil in vacuo and then chromatographed on silica with 20% EtOAc/hexane to give 7.1 g (59%) of the desired alkyne. ^{1}H NMR (CDCl₃) δ : 7.53 (br s, 1H); 7.43 (d, 2H); 15 7.42 (d, 2H); 4.80 (m, 1H); 4.43 (d, 1H); 4.40 (d, 1H); 3.83 (m, 1H); 3.59 (m, 1H); 1.7 (m, 6H).

Part C. Preparation of 3-cyanobenzaldehyde oxime.

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Hydroxylamine hydrochloride (13.5 g, 194 mmol) was added to a solution of 3-cyanobenzaldehyde (25 g, 191 mmol) in 75 mL of pyridine and 75 mL of ethanol under N_2 . This was allowed to stir at room temperature for 14 hours. Water (50 mL) was added with vigorous stirring and an off-white solid precipitated. The solid was filtered through a glass frit and washed with another 50 mL of water. Evaporation of residual water under high vacuum gave 19.2 g (69%) of title compound. ¹H NMR (CDCl₃) δ : 11.61 (s, 1H); 8.21 (s, 1H); 8.00 (s, 1H); 7.96 (d, 1H), 7.85 (d, 1H), 7.61 (t, 1H).

Part D. Preparation of N-(4-bromophenyl)-3-(3-cyanophenyl)-5-(tetrahydropyran-2-yloxymethyl)-isoxazo-4-yl-carboxamide and N-(4-bromophenyl)-3-(3-cyanophenyl)-4-(tetrahydropyran-2-yloxymethyl)-isoxazo-5-yl-carboxamide.

To a solution of 2.54 g (17.2 mmol) of 3-cyanobenzaldehyde oxime and 7.10 g (21.0 mmol) of N-(4-

bromophenyl)-4-(tetrahydropyran-2-yloxymethyl)-2-butynamide in 58 mL THF was added 45 mL bleach (0.67M aqueous solution) over a 4-hour period. The solvent was removed in vacuo and the resulting aqueous solution was extracted with 25 mL EtOAc The combined organic extracts were dried with 5 three times. MgSO₄ and the solvent removed in vacuo. Chromatography on silica with 20% EtOAc/hexane gave 1.4 g (17%) of N-(4bromophenyl)-3-(3-cyanophenyl)-5-(tetrahydropyran-2yloxymethyl)isoxazo-4-yl-carboxamide and 1.67 g (20%) of N-(4-10 bromopheny1)-3-(3-cyanopheny1)-4-(tetrahydropyran-2yloxymethyl)-isoxazo-5-yl-carboxamide. ¹H NMR (CDCl₃) δ : 1st isomer: 9.45 (br s, 1H); 8.11 (s, 1H); 8.04 (d, 1H); 7.77 (d, 1H); 7.58 (t, 1H); 7.50 (m, 4H); 4.98 (dd, 2H); 4.88 (m, 1H); 3.72 (m, 1H); 3.58 (m, 1H); 1.7 (m, 6H). 2nd isomer: 8.66 (br 15 s, 1H); 8.31 (m, 1H); 8.14 (d, 1H); 7.95 (d, 1H); 7.75 (t, 1H), 7.57 (m, 4H); 4.94 (dd, 2H); 4.87 (m, 1H); 3.87 (m, 1H); 3.57 (m, 1H); 1.6 (m, 6H).

Part E. Preparation of 4-(N-[2'-t-butylaminosulfonyl-[1,1']-20 biphen-4-yl]aminocarbonyl)-3-(3-cyanophenyl)-5-(tetrahydro-pyran-2-yloxymethyl)-isoxazole.

A mixture of 0.31 g (0.60 mmol) of N-(4-bromophenyl)-3-(3-cyanophenyl)-5-(tetrahydropyran-2-yloxymethyl)isoxazo-4-yl-25 carboxamide, 0.23 g (0.90 mmol) of 2-(t-butylaminosulfonyl)phenylboronic acid, 0.052 g (0.045 mmol) of tetrakis(triphenylphosphine palladium(0), 0.05 mL of 40% aqueous tetrabutylammonium hydroxide, and 0.9 mL of 2M aqueous sodium carbonate were refluxed with 8 mL of toluene under N2 30 for 5.5 hours. After cooling, the mixture was separated and the aqueous layer was extracted with 5 mL of ethyl acetate The combined organic extracts were dried with MgSO4 and concentrated. The resulting solid was chromatographed with 50% EtOAc/hexane to give 0.27 g (73%) of the desired product. 35 ¹H NMR (CDCl₃) δ : 9.57 (br s, 1H); 8.15 (m, 2H); 8.07 (d, 1H); 7.77 (d, 1H); 7.71 (d, 2H); 7.60 (t, 1H); 7.52 (m, 3H); 7.31 (m, 2H); 5.02 (dd, 2H); 4.94 (m, 1H); 3.72 (m, 1H); 3.60 (m, 1H); 1.7 (m, 6H); 1.04 (s, 9H).

Part F. Preparation of 4-[2'-aminosulfonyl-[1,1']-biphen-4-yl]aminocarbonyl-3-(3-cyanophenyl)-5-(hydroxymethyl)-isoxazole.

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A solution of 0.27 g (0.56 mmol) of $4-(N-[2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl]aminocarbonyl)-3-(3-cyanophenyl)-5-(tetrahydropyran-2-yloxymethyl)isoxazole in 10 mL of trifluoroacetic acid is allowed to stir under <math>N_2$ for 16 hours at room temperature. The solvent was removed in vacuo and then chromatographed on silica with 50% EtOAc/hexane to give 0.11 g (51%) of desired product. 1 H NMR (CDCl₃) δ : 9.19 (br s, 1H); 8.12 (d, 1H); 8.05 (m, 1H); 7.99 (d, 1H); 7.81 (d, 1H); 7.64 (t, 1H); 7.58 (m, 3H); 7.50 (m, 1H); 7.42 (d, 2H); 7.31 (d, 1H); 6.77 (m, 1H); 5.03 (d, 2H). HRMS 475.1076 (M+H).

Part G. Preparation of 3-(3-amidinophenyl)-4-[2'-aminosulfonyl-[1,1']-biphen-4-yl]aminocarbonyl-5-(hydroxymethyl)-isoxazole, trifluoroacetic acid salt.

4-(N-[2'-aminosulfonyl-[1,1']-biphen-4-yl]aminocarbonyl)-3-(3-cyanophenyl)-5-(hydroxymethyl)isoxazole (0.11 g, 0.22 mmol) was dissolved in 5 mL of methanol and 10 mL of 25 chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled-in for 30 minutes to saturate the solution. The mixture was sealed and allowed to stir at room temperature for 14 hours. The solvents were removed in vacuo and the resulting solid was added to 0.5 g (5.2 mmol) of ammonium carbonate and 10 mL of methanol. The mixture was 30 allowed to stir under N_2 for 14 hours. The solvent was removed at reduced pressure. The crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in $\rm H_2O/CH_3CN$ to give 0.07 g (53%) of the desired salt. 1H NMR (DMSO-d₆) δ : 10.60 35 (s, 1H); 9.43 (br s, 2H); 9.00 (br s, 2H); 8.14 (m, 1H); 7.98 (d, 2H); 7.89 (d, 1H); 7.75 (t, 1H); 7.58 (m, 4H); 7.34 (d, 2H); 7.28 (m, 1H); 4.79 (s, 2H). HRMS 492.1341 (M+H).

Example 2

3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

5 Part A. Preparation of 3-cyanobenzenehydroximinoyl chloride.

3-Cyanobenzaldehyde oxime (15 g, 103 mmol) was suspended in 90 mL of DMF and then N-chlorosuccinimide (13.7 g, 103 mmol) was added. Approximately 50 mL of gaseous HCl was added 10 via syringe below the liquid surface over a 2 minute period. The reaction was allowed to stir at room temperature for 15 The solvent was evaporated hours and the solution clarified. at 5 torr with a bath temp of 55°C till viscous and cloudy. Water (100 mL) was added with vigorous stirring. An off-white 15 precipitate formed, was filtered through a glass frit and washed with 50 mL water to give 18.1 g (98%) of the desired product after drying under high vacuum. ^{1}H NMR (CDCl₃) δ : 8.75 (s, 1H), 8.17 (s, 1H), 8.10 (d, 1H), 7.73 (d, 1H), 7.55 (dd, 1H).

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Part B. Preparation of 2'-t-butylaminosulfonyl-4-amino-[1,1']biphenyl.

A mixture of 3.44 g (20 mmol) of 4-bromoaniline and 5.14 25 g (20 mmol) of 2-(t-butylaminosulfonyl)phenylboronic acid, 1.16 g of tetrakis(triphenylphosphine) palladium(0) (1 mmol), 0.32 g of tetrabutylammonium bromide (1 mmol) and 20 mL of 2M aqueous sodium carbonate were refluxed with 180 mL of benzene under N_2 for 5.5 hours. After cooling, the mixture was diluted 30 with methylene chloride and water. The two phases were separated and the organic phase was washed with water, dried with MgSO₄ and concentrated in vacuo. The resulting thick oil was chromatographed on silica with 30% EtOAc/hexane to afford 2.52 g (41%) of the title compound. ^{1}H NMR (CDCl $_{3}$) δ : 8.14 (d, 35 1H); 7.53 (t, 1H); 7.43 (t, 1H); 7.33 (d, 2H); 7.27 (d, 1H); 6.76 (d, 2H); 3.7 (br s, 1H); 0.99 (s, 9H).

Part C. Preparation of 3-(3-cyanophenyl)-5-carbomethoxy-isoxazole.

Triethylamine (1.01 g, 10 mmol) is added dropwise over 2 hours to a solution of 0.72 g (4.0 mmol) of 3-cyanobenzene-hydroximinoyl chloride and 0.56 g (4.8 mmol) of methyl methoxyacrylate in 10 mL of CH₂Cl₂ under N₂. The reaction mixture is diluted with 10 mL of water and the organic layer separated. The aqueous solution is extracted with 10 mL EtOAc twice and the combined organic extracts are dried with MgSO₄ and concentrated *in vacuo*. The resulting thick oil was chromatographed on silica with 30% EtOAc/hexane to give 0.90 g (99%) of the desired product. ¹H NMR (CDCl₃) δ: 9.07 (s, 1H); 8.14 (s, 1H); 8.06 (d, 1H); 7.79 (d, 2H); 7.61 (t, 1H); 3.88 (s, 3H).

Part D. Preparation of 3-(3-cyanophenyl)-isoxazole-5-carboxylic acid.

A mixture of 0.90 g (3.9 mmol) of 4-carbomethoxy-3-(3-cyanophenyl)isoxazole, 0.25 g (6.0 mmol) of lithium hydroxide monohydrate in 1 mL water and 2 mL methanol is stirred under N_2 for 5 hours. The reaction mixture was acidified to pH 3 with 1N HCl, extracted with 10 mL EtOAc three times, dried with MgSO₄ and concentrated in vacuo to give 0.36 g (43%) of the desired acid. ¹H NMR (CDCl₃) δ : 8.94 (s, 1H); 8.01 (s, 1H); 7.94 (d, 1H); 7.60 (d, 2H); 7.43 (t, 1H).

Part E. Preparation of 4-(N-[2'-t-butylaminosulfonyl-[1,1']-30 biphen-4-yl]aminocarbonyl)-3-(3-cyanophenyl)-isoxazole.

Thionyl chloride (10 mL) and 3-(3-cyanophenyl)isoxazole-4-carboxylic acid (0.34 g , 1.6 mmol) are stirred at room temperature under N_2 for 1 hour. The excess thionyl chloride is removed in vacuo and the resulting solid is resuspended in 10 mL toluene. The toluene is removed in vacuo to remove any residual thionyl chloride. The solid is dissolved in 15 mL CH_2Cl_2 and 0.53 g (1.8 mmol) of 2'-t-butylaminosulfonyl-4-

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amino-[1,1'] biphenyl and 0.32 g (3.2 mmol) of triethylamine are added. After 2 hours, the reaction mixture is diluted with 10 mL of water and the organic layer separated. aqueous solution is extracted with 10 mL EtOAc three times and 5 the combined organic extracts are dried with MgSO4 and concentrated in vacuo. The resulting thick oil was chromatographed on silica with 25% EtOAc/hexane to 0.53 g (66%) of the desired product. ¹H NMR (CDCl₃) δ : 9.07 (s, 1H): 8.14 (m, 1H); 8.06 (m, 1H); 7.81 (d, 1H); 7.55 (m, 9H); 1.03 (s, 9H).

Part F. Preparation of 3-(3-amidinophenyl)-4-[2'aminosulfonyl-[1,1']-biphen-4-yl]aminocarbonyl-5-(hydroxymethyl)-isoxazole, trifluoroacetic acid salt.

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4-(N-[2'-aminosulfonyl-[1,1']-biphen-4-yl]aminocarbonyl)-3-(3-cyanophenyl)isoxazole (0.53 g, 1.1 mmol) was dissolved in 10 mL of methanol and 30 mL of chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled-in 20 for 30 minutes to saturate the solution. The mixture was sealed and allowed to stir at room temperature for 14 hours. The solvents were removed in vacuo and the resulting solid was added to 0.5 g (5.2 mmol) of ammonium carbonate and 20 mL of The mixture was allowed to stir under N2 for 14 25 hours. The solvent was removed at reduced pressure. crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in H_2O/CH_3CN to give 0.09 g (15%) of the title salt. ^{1}H NMR (DMSO-d₆) δ : 10.69 (s, 1H); 9.44 (br s, 2H); 9.06 (br s, 2H); 8.17 (m, 1H); 8.06 (d, 1H); 8.00 (d, 30 1H); 7.92 (d, 1H); 7.75 (t, 1H); 7.67 (d, 2H); 7.56 (m, 2H); 7.33 (d, 2H); 7.28 (m, 1H). HRMS 462.1252 (M+H).

Example 3

3-(3-amidinophenyl)-4-[(2'-methylsulfonyl-[1,1']-biphen-4-35 yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

Part A. Preparation of 2-methylthiophenylboronic acid

2-Bromothioanisole (8.56 g, 42 mmol) was dissolved in 90 mL of dry THF and cooled to -78°C. n-Butyllithium (18.6 mL, 2.5M in hexane, 47 mmol) was added dropwise over 20 minutes. and the resulting solution stirred 90 min. Triisopropylborate (13.7 mL, 59 mmol) was added dropwise over 10 minutes, and the 5 resulting solution stirred at -78°C for 45 minutes before removing the cooling bath. The reaction was stirred overnight at room temperature. HCl (40 mL of a 6M aqueous solution) was added and stirred vigorously 8h. The reaction was diluted with 100 mL water and extracted three times with Et₂O. organic extracts were combined and extracted twice with 80 mL The basic layers were combined and acidified with 50 mL 6M HCl and 25ml 2M HCl. The resulting cloudy solution was extracted three times with 50 mL of Et₂O, dried over MgSO₄, 15 filtered, and evaporated to yield a white solid (5.22g, 74%). 1 H NMR (CDCl $_{3}$) δ : 8.01 (dd, 1H), 7.53 (dd, 1H), 7.43 (td, 1H), 7.34 (td, 1H), 6.22 (s, 2H), 2.50 (s, 3H).

Part B. Preparation of 4-(t-butoxycarbonyl)amino-2'-20 methylthio-[1,1']biphenyl

2-Methylthiophenylboronic acid (5.2 g, 31 mmol), N-tbutylcarbonyl-4-bromoaniline (4.0 g, 15 mmol), Na₂CO₃ (31 mL, 2M aqueous), tetrabutylammonium bromide (230 mg, 0.7 mmol), 25 and bis(triphenylphosphine)palladium(II)chloride (515 mg, 0.7 mmol) were combined in 300 mL of benzene, placed briefly under vacuum to degas, and heated at reflux under argon overnight. The reaction was cooled to room temperature and diluted with 100 mL water and 100 mL EtOAc. The organic layer was separated, dried over Na_2SO_4 , filtered through celite, and the 30 solvents evaporated. The crude mixture was chromatographed on silica with 10-30% EtOAc/hexane to yield the desired compound (4.17 g, 90%). $^{1}\text{H NMR}$ (CDCl3) $\delta\text{: 7.42}$ (d, 2H), 7.35 (d, 2H), 7.28 (m, 2H), 7.19 (m, 2H), 6.53 (bs, 1H), 2.36 (s, 3H), 1.53 35 (s, 9H).

Part C. Preparation of 4-(t-butoxycarbonyl)amino-2'-methylsulfonyl-[1,1']biphenyl

4-(t-Butoxycarbonyl)amino-2'-methylthio-[1,1']biphenyl (4.16 g, 13 mmol) was dissolved in 400 mL of CH₂Cl₂ and cooled to 0°C. MCPBA (11.2 g 57-86%, 37 mmol min.) was added in 4 portions and stirred 25 minutes before removing the cooling bath. The reaction was stirred at room temp for 3 hours. The reaction mixture was then extracted with 50 mL saturated aqueous Na₂SO₃ and then with 50 mL saturated aqueous Na₂CO₃. The organic layer was removed, dried over Na₂SO₄, filtered, and evaporated to yield the desired product (4.80 g). ¹H NMR (CDCl₃) δ: 8.22 (dd, 1H), 7.63 (td, 1H), 7.54 (td, 1H), 7.41 (m, 5H), 6.61 (s, 1H), 2.64 (s, 3H), 1.54 (s, 9H).

Part D. Preparation of 4-amino-2'-methylsulfonyl-15 [1,1']biphenyl

4-(t-butoxycarbonyl)amino-2'-methylsulfonyl- [1,1']biphenyl (4.6 g, 13 mmol), was suspended in 100 mL of 4M HCl in dioxane and stirred 2.5 days. The resulting mixture was filtered and the cake rinsed with Et_2O to yield a tan solid (3.69 g, 98%). ¹H NMR (DMSO-d₆) δ : 8.04 (d, 1H), 7.71 (t, 1H), 7.61 (t, 1H), 7.31 (m, 3H), 7.06 (m, 2H), 2.79 (s, 3H).

Part E. Preparation of 3-(3-cyanophenyl)-4-[(2'-25 methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole

4-Amino-2'-methylsulfonyl-[1,1']biphenyl (0.50 g, 2.2 mmol) was suspended in 10 mL of CH₂Cl₂ and 4.4 mL of a 2M solution of trimethylaluminum in heptane was added slowly via syringe. The reaction was stirred for 30 minutes at room temperature and then 3-(3-cyanophenyl)-5-carbomethoxyisoxazole (0.62 g, 2.2 mmol) was added. The reaction mixture was stirred at room temperature for an additional 14 hours. The aluminum reagent was quenched by careful addition of 1N HCl to pH 2, then extracted with 10 mL of CH₂Cl₂ three times. The combined organic extracts were washed with water then brine, dried over MgSO₄ and the solvent evaporated. The desired product was obtained (0.74 g, 76%) after silica gel

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chromatography with 30% EtOAc/hexane. 1 H NMR (CDCl₃) δ : 9.07 (s, 1H); 8.31 (s, 1H); 8.21 (d, 1H); 8.09 (s, 1H); 8.07 (d, 1H); 7.79 (d, 1H); 7.63 (m, 4H); 7.42 (d, 2H); 7.37 (d, 1H); 2.72 (s, 3H).

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- Part F. Preparation of 3-(3-amidinophenyl)-4-[(2'-methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt
- 3-(3-Cyanophenyl)-4-[(2'-methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole (0.74 g, 1.7 mmol) was dissolved in 10 mL of methanol and 40 mL of chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled-in for 1.5 hours to saturate the solution. The mixture was sealed and allowed to stir at room temperature for 14 hours.
- The solvents were removed in vacuo and the resulting solid was added to 0.66 g (8.5 mmol) of ammonium carbonate and 20 mL of methanol. The mixture was sealed and allowed to stir under Ar for 14 hours. The solvent was removed at reduced pressure.
- The crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in $\rm H_2O/CH_3CN$ to give 0.33 g (43%) of the desired salt. 1H NMR (DMSO-d₆) δ : 10.69 (s, 1H); 9.67 (s, 1H); 9.41 (br s, 2H); 9.07 (br s, 2H); 8.18 (t, 1H); 8.06 (dt, 2H); 7.92 (d, 1H); 7.72 (m, 5H); 7.38 (s, 1H); 7.36 (d,
- 25 2H); 2.80 (s, 3H). HRMS 461.1284 (M+H).

Example 4

3-(3-amidinophenyl)-4-[5-(2-aminosulfonyl)phenylpyrid-2-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole, trifluoroacetic acid salt

- Part A. Preparation of 3-(3-cyanophenyl)-5-methoxymethyl-4-carbomethoxyisoxazole
- Methyl 4-methoxyacetoacetate (1.6 mL, 12 mmol) was dissolved in 12 mL of 2M sodium methoxide in methanol. 3-Cyanobenzenehydroximinoyl chloride (2.0 g, 11 mmol) was dissolved in 10 mL methanol and added to the basic solution

over a 5-hour period via syringe pump. The reaction was quenched with 20 mL of saturated, aqueous ammonium chloride. The mixture was extracted with 30 mL EtOAc three times and the combined organic extracts washed with 10 mL water three times. The resulting solution was dried with MgSO₄, concentrated in vacuo and then chromatographed on silica with 10% Et₂O/benzene to 1.14 g (38%) of a white solid. 1 H NMR (CDCl₃) δ : 7.95 (m, 1H); 7.92 (dd, 1H); 7.98 (dd, 1H); 7.60 (t, 1H); 4.91 (s, 2H); 3.83 (s, 3H); 3.54 (s, 3H).

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Part B. Preparation of 2-amino-5-(2-t-butylaminosulfonyl) phenylpyridine

A mixture of 1.55 g (9.0 mmol) of 2-amino-5-bromopyridine 15 and 2.3 g (9.0 mmol) of 2-(t-butylaminosulfonyl)phenylboronic acid, 0.52 g of tetrakis(triphenylphosphine) palladium(0) (0.45 mmol), 0.15 g of tetrabutylammonium bromide (0.45 mmol) and 9 mL of 2M aqueous sodium carbonate were refluxed with 80 mL of benzene under Ar for 5 hours. After cooling, the 20 mixture was diluted with 25 mL of methylene chloride and 25 mL The two phases were separated and the organic phase was washed with water, dried with MgSO4 and concentrated in The resulting thick oil was chromatographed on silica with 50% EtOAc/hexane to afford 1.34 g (49%) of the aniline. ¹H NMR (CDCl₃) δ : 8.18 (d, 1H); 8.07 (m, 1H); 7.70 (dd, 1H); 25 7.58 (dt, 1H); 7.48 (dt, 1H); 7.28 (d, 1H); 6.56 (d, 1H); 4.62 (br s, 2H); 3.88 (br s, 1H); 1.06 (s, 9H).

Part C. Preparation of 3-(3-cyanophenyl)-4-[5-(2-t-30 butylaminosulfonyl)phenylpyrid-2-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole

3-(3-cyanophenyl)-5-methoxymethyl-4-carbomethoxyisoxazole (1.12 g, 4.1 mmol) was dissolved in 3 mL of THF and 1 mL

35 water. Lithium hydroxide monohydrate (0.20 g, 4.9 mmol) was added and the reaction stirred at room temperature for 5 hours. The solvent was evaporated in vacuo, 100 mL of water was added and the mixture extracted with 50 mL of EtOAc twice.

The combined organic extracts were dried with MgSO4 concentrated in vacuo to give 0.8 g (75%) of a white solid. The crude carboxylic acid (0.4g, 1.6 mmol) was dissolved in 1.2 mL of 2.0M oxalyl chloride in CH₂Cl₂ followed by 0.1 mL of 5 DMF. The reaction was allowed to stir at room temperature for The reaction was concentrated under high vacuum for 30 minutes to yield a yellow-orange solid. The crude acid chloride was dissolved in 5 mL CH₂Cl₂. 2-Amino-5-(2-tbutylaminosulfonyl)phenylpyridine (0.51 g, 1.86 mmol) followed 10 by triethylamine (0.65 mL, 4.65 mmol) was added to the crude acid chloride solution. The reaction mixture was allowed to stir at room temperature for 14 hours. The solution was diluted with 50 mL CH₂Cl₂, washed with 25 mL saturated, aqueous NaHCO₃, 25 mL 1M HCl then 25 mL brine. The organic layer was 15 dried with MgSO4, concentrated in vacuo, and chromatographed on silica with 20% EtOAc/benzene to give 0.10 g (12%) of the desired product. ¹H NMR (CDCl₃) δ : 10.07 (br s, 1H); 8.40 (d, 1H); 8.30 (d, 1H); 8.18 (dd, 1H); 8.09 (m, 1H); 8.02 (dt, 1H); 7.84 (dd, 1H); 7.79 (dt, 1H); 7.60 (m, 3H); 7.28 (dd, 1H); 20 4.89 (s, 2H); 3.71 (s, 3H); 1.07 (s, 9H).

Part D. Preparation of 3-(3-amidinophenyl)-4-[5-(2-aminosulfonyl)phenylpyrid-2-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole, trifluoroacetic acid salt

3-(3-cyanophenyl)-4-[5-(2-t-

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butylaminosulfonyl)phenylpyrid-2-yl)aminocarbonyl]-5- (methoxymethyl)isoxazole (0.10 g, 0.18 mmol) was dissolved in 1 mL of methanol and 4 mL of chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled-in for 2.5 hours to saturate the solution. The mixture was sealed and allowed to stir at room temperature for 14 hours. The solvents were removed in vacuo and the resulting solid was added to 0.07 g (0.90 mmol) of ammonium carbonate and 10 mL of methanol. The mixture was sealed and allowed to stir under Ar for 14 hours. The solvent was removed at reduced pressure.

phase) eluting with 0.5% TFA in H_2O/CH_3CN to give 0.33 g (43%)

The crude benzamidine was purified by HPLC (C18 reversed

of the desired salt. ^{1}H NMR (DMSO-d₆) δ : 10.69 (s, 1H); 9.67 (s, 1H); 9.41 (br s, 2H); 9.07 (br s, 2H); 8.18 (t, 1H); 8.06 (dt, 2H); 7.92 (d, 1H); 7.72 (m, 5H); 7.38 (s, 1H); 7.36 (d, 2H); 2.80 (s, 3H). HRMS 507.1458 (M+H).

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Example 5

3-(3-amidinophenyl)-4-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

10 Part A. Preparation of 2-(trifluoromethyl)phenylboronic acid

To a solution of 58.8 g (0.261 mol) of 1-bromo-2-(trifluoromethyl) benzene in 250 mL of THF under Ar was added 110 mL (0.275 mol) of 2.5M n-butyllithium in hexane over 35 15 minutes, keeping the temperature between 0-5°C. The reaction mixture was allowed to warm to 10°C. Triisopropylborate (95 mL, 0.313 mol) was added, keeping the temperature below 35°C. After 1 hour, the reaction mixture was cooled, 1N HCl (425 mL) was added, and the mixture was stirred overnight. The mixture 20 was extracted with 100 mL of ether three times, and the combined organic extracts were extracted with 100 mL of 1N NaOH three times. The aqueous extracts were acidified to pH 1 with 6N HCl, and then extracted with 100 mL ether three times. The combined ether extracts were dried over MgSO₄, and the solvents evaporated in vacuo to give 46.1 g (93%) of the 25 desired compound as a light yellow oil. ¹H NMR (CDCl₃) δ : 7.77 (d, 1H); 7.72 (d, 1H); 7.56 (m, 2H); 4.87 (br s, 2H).

Part B. Preparation of 4-amino-2'-trifluoromethyl-[1,1']biphenyl

A mixture of 3.44 g (20 mmol) of 4-bromoaniline and 3.80 g (20 mmol) of 2-(trifluoromethyl)phenylboronic acid, 1.16 g of tetrakis(triphenylphosphine) palladium(0) (1 mmol), 0.32 g of tetrabutylammonium bromide (1 mmol) and 20 mL of 2M aqueous sodium carbonate were refluxed with 180 mL of benzene under N_2 for 14 hours. After cooling, the mixture was diluted with methylene chloride and water. The two phases were separated

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and the organic phase was washed with water, dried with MgSO₄ and concentrated *in vacuo*. The resulting thick oil was chromatographed on silica with 10% EtOAc/hexane to afford 2.09 g (44%) of the aniline. ¹H NMR (CDCl₃) δ : 7.72 (d, 1H); 7.53 (t, 1H); 7.41 (t, 1H); 7.32 (d, 1H); 7.13 (d, 2H); 6.73 (d, 2H); 3.74 (br s, 2H).

Part C. Preparation of 3-(3-cyanophenyl)-4-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole

4-Amino-2'-trifluoromethyl-[1,1']biphenyl (0.24 g, 1.0 mmol) was suspended in 5 mL of CH_2Cl_2 and 2.5 mL of a 2M solution of trimethylaluminum in heptane was added slowly via The reaction was stirred for 30 minutes at room 15 temperature and then 4-carbomethoxy-3-(3-cyanophenyl)isoxazole (0.25 g, 1.0 mmol) was added. The reaction mixture was stirred at room temperature for an additional 14 hours. aluminum reagent was quenched by careful addition of 1N HCl to pH 2, then extracted with 10 mL of CH₂Cl₂ three times. 20 combined organic extracts were washed with water then brine. dried over MgSO4 and the solvent evaporated. The desired product was obtained (0.35 g, 80%) after silica gel chromatography with 20% EtOAc/hexane. ¹H NMR (CDCl₃) δ : 9.02 (s, 1H); 8.17 (s, 1H); 8.08 (d, 1H); 7.83 (d, 1H); 7.76 (d,

Part D. Preparation of 3-(3-amidinophenyl)-4-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

1H); 7.67 (t, 1H); 7.56 (m, 1H); 7.48 (m, 3H); 7.34 (m, 3H).

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3-(3-cyanophenyl)-4-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole (0.33 g, 0.76 mmol) was dissolved in 1 mL of methanol and 3 mL of chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled-in for 0.5 hours to saturate the solution. The mixture was sealed and allowed to stir at room temperature for 14 hours. The solvents were removed in vacuo and the resulting solid was added to 0.25 g (2.6 mmol) of ammonium carbonate and 2 mL of

methanol. The mixture was sealed and allowed to stir under Ar for 14 hours. The solvent was removed at reduced pressure. The crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in H_2O/CH_3CN to give 0.11 g (32%) of the desired salt. ¹H NMR (DMSO-d₆) δ : 10.68 (s, 1H); 9.68 (s, 1H); 9.43 (br s, 2H); 9.06 (br s, 2H); 8.20 (m, 1H); 8.08 (d, 1H); 7.93 (d, 1H); 7.75 (m, 5H); 7.60 (d, 1H); 7.38 (m, 1H); 7.31 (d, 2H). HRMS 451.1399 (M+H).

10 Example 6

3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(trifluoromethyl)isoxazole, trifluoroacetic acid salt

Part A. Preparation of ethyl 3-methoxy-3-(trifluoromethyl)acylate

Diazald® (14.55, 67.9 mmol) was dissolved in 130 mL Et₂O and 30 mL 95% EtOH. Potassium hydroxide (12.37 g, 220 mmol) is dissolved in 23 mL water and added slowly via additional funnel to the ethanol solution which is heated to 65°C. The ether distillate containing diazomethane is condensed into ethyl 4,4,4-trifluoroacetoacetate (10.0 g, 54.3 mmol). The excess diazomethane was decomposed with the addition of 1 drop of acetic acid. The ethereal solution was evaporated at 450 torr for 30 minutes. The crude enol ether (10.7 g, 100%) was used without purification. ¹H NMR (CDCl₃) δ: 5.78 (s, 1H); 4.22 (g, 2H); 4.04 (s, 3H); 1.32 (t, 3H).

Part B. Preparation of 3-(3-cyanophenyl)-5-(trifluoromethyl-4-carbomethoxyisoxazole

Tributylamine (12.6 g, 67.9 mmol) is added dropwise over 2 hours to a solution of 9.81 g (54.3 mmol) of 3-cyanobenzene35 hydroximinoyl chloride and 10.76 g (54.3 mmol) of ethyl 3methoxy-3-(trifluoromethyl)acylate in 49 mL of CH₂Cl₂ and 1 mL
DMSO under N₂. The reaction mixture is diluted with 100 mL of water and the organic layer separated. The aqueous solution

is extracted with 100 mL EtOAc twice and the combined organic extracts are dried with $MgSO_4$ and concentrated *in vacuo*. The resulting thick oil was chromatographed on silica with 30% EtOAc/hexane to give 1.60 g (10%) of the desired product. 1H NMR (CDCl₃) δ : 8.05 (m, 1H); 7.96 (dt, 1H); 7.84 (dt, 1H); 7.63 (t, 1H); 4.37 (q, 2H); 1.33 (t, 3H).

- Part C. Preparation of 3-(3-cyanophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(trifluoromethyl)isoxazole
- 2'-t-Butylaminosulfonyl-4-amino-[1,1']biphenyl (0.39 g, 1.3 mmol) was suspended in 4 mL of CH_2Cl_2 and 1.9 mL of a 2M solution of trimethylaluminum in heptane was added slowly via 15 syringe. The reaction was stirred for 30 minutes at room temperature and then 3-(3-cyanophenyl)-5-(triflouromethyl-4carbomethoxyisoxazole (0.40 g, 1.3 mmol) was added. reaction mixture was stirred at room temperature for an additional 14 hours. The aluminum reagent was quenched by 20 careful addition of 1N HCl to pH 2, then extracted with 20 mL of CH₂Cl₂ three times. The combined organic extracts were washed with water then brine, dried over MgSO4 and the solvent evaporated. The desired product was obtained (0.31 g, 43%) after silica gel chromatography with 20% EtOAc/hexane. ¹H NMR 25 $(CDCl_3) \delta$: 8.74 (br s, 1H); 8.11 (d, 1H); 8.05 (m, 1H); 8.02 (d, 1H); 7.76 (d, 1H); 7.55 (m, 5H); 7.37 (d, 2H); 7.28 (d, 1H); 1.03 (s, 9H).
- Part D. Preparation of 3-(3-amidinophenyl)-4-[(2'-30 aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(trifluoromethyl)isoxazole, trifluoroacetic acid salt
- 3-(3-cyanophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(trifluoromethyl)isoxazole (0.30 g, 0.53 mmol) was dissolved in 1 mL of methanol and 3 mL of chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled-in for 0.5 hours to saturate the solution. The mixture was sealed and allowed to stir at room

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temperature for 14 hours. The solvents were removed in vacuo and the resulting solid was added to 0.25 g (2.6 mmol) of ammonium carbonate and 2 mL of methanol. The mixture was sealed and allowed to stir under Ar for 14 hours. The solvent 5 was removed at reduced pressure. The crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in $\rm H_2O/CH_3CN$ to give 0.11 g (36%) of the desired salt. $^1\rm H~NMR$ (DMSO- d_6) δ : 11.17 (s, 1H); 9.46 (br s, 2H); 9.09 (br s, 2H); 8.19 (m, 1H); 7.98 (m, 3H); 7.84 (t, 1H); 7.56 (m, 2H); 7.55 (d, 2H); 7.37 (d, 2H); 7.26 (m, 1H). HRMS 586.1743 (M+H).

Examples 7 and 8

2-Acetylamino-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 7) and 2-amino-4-(3-amidinophenyl)-5-[(2'aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 8)

Part A. Preparation of methyl 3-(3-cyanophenyl)-3-20 hydroxypropionate.

To a suspension of activated zinc powder (4.3 g, 65.4 mmol) in 100 mL of tetrahydrofuran was added a few drops of dibromoethane. The resulting mixture was heated to 65° C, 25 stirred for 5 min and then was cooled to 25° C. To this solution was added methyl bromoacetate (5.0 g, 32.7 mmol) and 3-cyanobenzaldehyde (4.3 g, 32.7 mmol). The mixture was heated to 65° C and stirred for 2 h. The reaction was allowed to cool to 25° C and then was quenched with 10% aq HCl and 30 filtered through celite. The mixture was diluted with ethyl acetate and washed with 10% aq HCl and saturated aq NaHCO3. This wash cycle was repeated until no white precipitate was observed upon addition of saturated aq NaHCO3. The organics were then washed with brine, dried (MgSO₄) and concentrated in 35 The residue was purified by flash chromatography (elution with 1:1 hexanes/ethyl acetate) to afford 4.5 g (67%) of the title compound as an oil. MS (NH $_3$ -DCI) 223.1 (M+H)+.

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Part B. Preparation of methyl 3-(3-cyanophenyl)-3-oxopropionate.

To a solution of methyl 3-(3-cyanophenyl)-3
hydroxypropionate (2.22 g, 10.8 mmol) in 30 mL of methylene chloride was added activated manganese dioxide (4.7 g, 54.0 mmol). This mixture was allowed to stir at 25° C for 16 h. The reaction mixture was filtered through a pad of celite and concentrated in vacuo. The residue was purified by flash chromatography (elution with 2:1 hexanes/ethyl acetate) to afford 0.9 g (41%) of the title compound along with 0.8 g (36%) of recovered starting material. MS for title compound (H₂O GC-MS) 204 (M+H)+.

Part C. Preparation of methyl 2-bromo-3-(3-cyanophenyl)-3-oxopropionate.

To a solution of methyl 3-(3-cyanophenyl)-3-oxopropionate (0.91 g, 4.48 mmol) in 20 mL of carbon tetrachloride at 0° C was added N-bromosuccinimide (0.80 g, 4.48 mmol). The resulting solution was allowed warm to 25° C and was stirred for 2 h. The insoluble succinimide was filtered off and the solution was concentrated in vacuo to afford an oil (1.2 g, 95%) which was sufficiently pure to be used without purification. MS (H₂O GC-MS) 282/284 (M+H)+.

Part D. Preparation of 2-acetylamino-4-(3-cyanophenyl)-5-carbomethoxythiazole.

To a solution of methyl 2-bromo-3-(3-cyanophenyl)-3oxopropionate (1.25 g, 4.4 mmol) in 20 mL of tetrahydrofuran
was added 1-acetylthiourea (0.52 g, 4.4 mmol). The resulting
mixture was stirred at 65° C for 3h. The reaction was allowed
to cool and the solvent was evaporated in vacuo. The residue
was taken up in ethyl acetate, washed with 10% ag HCl,
saturated ag NaHCO₃ and brine, dried (MgSO₄) and concentrated
in vacuo to yield a solid. Trituration with hexanes/ethyl

acetate left the title compound as a white solid (0.4 g, 30%). MS (ESI) $302.2 \ (M+H)+.$

Part E. Preparation of 2-acetylamino-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole.

To a solution of (2'-tert-butylaminosulfonyl-[1,1']biphen-4-yl)amine (0.27 g, 0.88 mmol) in 5 mL of methylene 10 chloride at 25° C was added trimethylaluminum (1.76 mL of a 2.0 M solution in toluene, 3.52 mmol) dropwise. The resulting solution was allowed to stir until no more gas evolution was observed (~15 min). To this solution was added 2-acetylamino-4-(3-cyanophenyl)-5-carbomethoxythiazole (0.12 g, 0.40 mmol) 15 as a solution in methylene chloride. The resulting solution was stirred at 40° C for 2 h and then was cooled to 25° C and quenched by the addition of saturated aq NH4Cl. After diluting with ethyl acetate, the organic layer was washed with 10% ag HCl, saturated aq NaHCO3 and brine, dried (MgSO4) and 20 concentrated in vacuo. The residue was purified by flash chromatography (elution with 1:1 hexanes/ethyl acetate) to afford 0.15 g (65%) of the title compound as a solid. (ESI) 574 (M+H)+.

Part F. Preparation of 2-acetylamino-4-(3-amidinophenyl)-5[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole,
trifluoroacetic acid salt (Example 7) and 2-amino-4-(3amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example
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Through a solution of 2-acetylamino-4-(3-cyanophenyl)-5[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole (0.15 g, 0.26 mmol) in 50 mL of

absolute methanol at 0° C was bubbled anhydrous HCl (g) until
the solution was saturated. This solution was tightly
stoppered and allowed to stand at 0° C for 16 h. The solution
was concentrated in vacuo and then was taken up in 10 mL of

absolute methanol and then there was added ammonium carbonate (0.15 g, 1.56 mmol). This mixture was allowed to stir at 25° C for 16 h. The reaction mixture was then concentrated in vacuo and purified by prep HPLC (C18 reverse phase column, elution with a H₂O/CH₃CN gradient with 0.5% TFA) to afford 2-acetylamino-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 7) as the major product (0.50 g, 30%). MS (ESI) 535 (M+H)+. There was also isolated 2-amino-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 8) as a minor product (0.10 g, 6%). MS (ESI) 493 (M+H)+.

Example 9

2-Methyl-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt

Part A. Preparation of 2-methyl-4-(3-cyanophenyl)-5-carbomethoxythiazole.

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To a solution of methyl 2-bromo-3-(3-cyanophenyl)-3-oxopropionate from Example 1, Part C $(0.50~\rm g,~1.77~\rm mmol)$ in 10 mL of tetrahydrofuran was added thioacetamide $(0.14~\rm g,~1.77~\rm mmol)$. The resulting solution was stirred at 65° C for 4h and then was allowed to cool to 25° C. This mixture was diluted with ethyl acetate, washed with 10% aq HCl, saturated aq NaHCO3 and brine, dried (MgSO4) and concentrated in vacuo to a solid. Trituration with ether left 0.14 g (31%) of the title compound as a solid. MS (NH_3-CI) 259 (M+H)+.

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Part B. Preparation of 2-methyl-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

Following the procedure of Example 1, Part E, 2-methyl-4-(3-cyanophenyl)-5-carbomethoxythiazole (0.08 g, 0.31 mmol) was converted into 0.085 g (52%) of the title compound as a solid. MS (ESI) 531.3 (M+H)+.

Part C. Preparation of 2-methyl-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

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A solution of 2-methyl-4-(3-cyanophenyl)-5-[(2'-tertbutylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (0.085 g, 0.16 mmol) in 5 mL of trifluoroacetic acid was stirred at 70° C until gas evolution was no longer observed (~ 15 min) and then was allowed to cool to room temperature and 10 as concentrated in vacuo. The crude residue was dissolved in 40 mL of absolute methanol and cooled to 0° C. Anhydrous HCl gas was bubbled through the solution until saturated (~ 30 min). The flask was then sealed and allowed to stand at 0° C 15 for 16 h. The reaction mixture was concentrated in vacuo, dissolved in 10 mL of absolute methanol and then ammonium carbonate (0.09 g, 0.96 mmol) was added and the mixture was allowed to stir at 25° C for 24 h. The reaction mixture was concentrated in vacuo and purified by prep HPLC (C18 reverse 20 phase column, elution with a H₂O/CH₃CN gradient with 0.5% TFA) to afford 65 mg (68%) of the title compound as a solid. (ESI) 492.3 (N+H)+.

Example 10

5-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]oxazole

Part A. Preparation of 5-(3-cyanophenyl)-4-carboxymethyloxazole.

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The title compound was prepared in 50% yield by the condensation of 3-cyanobenzoyl chloride, methyl-isocyanoacetate and triethylamine in anhydrous THF following the general method of Suzuki et. al. Syn. Comm. 1972, 2, 237.

35 ¹H NMR (CDCl₃) δ: 8.42-8.40 (d, 1H), 7.99 (s, 1H), 9.77-7.75 (d, 1H), 7.63 (t, 1H), 3.99 (s, 3H) ppm; Ammonia mass spectrum analysis m/z (rel intensity) 246(M+NH₄+, 100), 229(M+H).

Part B. Preparation of 5-(3-cyanophenyl)-oxazole-4-carboxylic acid.

Standard LiOH hydrolysis in aqueous THF of the product from part A then provided pure oxazole carboxylic acid in quantitative yield. ¹H NMR (CDCl₃) δ: 8.56-8.34 (d, 1H), 8.51 (s, 1H), 8.03 (s, 1H), 7.77-7.76 (d, 1H), 7.67-7.62 (t, 1H) ppm; Ammonia mass spectrum analysis m/z (rel intensity) 232 (M+NH₄⁺, 100) ppm.

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Part C. Preparation of 5-(3-cyanophenyl)-4-[(2'-t-butyl-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]oxazole.

The acid obtained in part B was then coupled (60% yield)

15 to 2'-tert-butylsulfonamide-biphenylaniline acid chloride as described above.

1 NMR (CDCl3) δ: 9.24 (s, 1H), 8.71 (s, 1H), 8.67 (s, 1H), 8.19-8.16 (m, 1H), 8.01 (s, 1H), 7.83-7.80 (d, 2H), 7.76 (m, 1H), 7.67 (d, 1H), 7.35-7.32 (m, 1H), 3.62 (s, 1H), 1.03 (s, 9H) ppm; ESI mass spectrum analysis m/z

20 (rel. intensity) 445 (M+H, 100).

Part D. Preparation of 5-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]oxazole.

The compound obtained in part C was subjected to the Pinner-amidine reaction sequence as outlined previously to obtain the title benzamidine compound in 40% yield. Colorless crystals obtained after lyophilization. ^{1}H NMR (DMSO d₆) δ : 10.49 (s, 1H), 9.45 (bs, 2H), 9.12 (bs, 2H), 8.85 (s, 1H), 8.61 (s, 1H), 8.54-8.51 (d, 1H), 8.05 (d, 1H), 7.91-7.77 (m, 4H), 7.65-7.54 (m, 2H), 7.40-7.37 (d, 2H), 7.35 (d, 1H), 7.27 (s, 2H) ppm; ESI mass spectrum analysis m/z (rel. intensity) 462 (M+H, 100); High resolution mass spectrum analysis calc. for C23H20N5SO4 462.123601, found 462.124334.

PCT/US97/23470 WO 98/28282

Example 11

3-(3-amidinophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

4-(N-[2'-Aminosulfonyl-[1,1']-biphen-4-yl]aminocarbonyl)-3-(3-cyanophenyl)isoxazole (0.53 g, 1.1 mmol) was dissolved in 10 mL of methanol and 30 mL of chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled for 30 minutes to saturate the solution. The mixture was sealed and allowed to stir at room temperature for 14 hours. 10 solvents were removed in vacuo and the resulting solid was used in the next step.

The imidate formed above was added with 0.5 g (5.2 mmol) of ammonium carbonate and 20 mL of methanol. The mixture was allowed to stir under N_2 for 14 hours. The solvent was removed at reduced pressure. The crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in $\rm H_2O/CH_3CN$ to give 0.09 g (16%) of the desired salt. ^{1}H NMR (DMSO-d₆) δ : 10.69 (s, 1H); 9.70 (s, 1H); 9.43 (br s, 2H); 9.05 (br s, 2H); 8.05 (d, 1H); 8.00 (d, 1H); 7.92 (d, 1H); 7.74 (t, 1H); 7.67 (d, 2H); 7.59 (t, 1H); 7.52 (t, 1H); 7.34 (d, 2H); 7.26 (m, 1H); 0.98 (s, 9H). HRMS 517.1768 (M+H).

Example 12

3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-25 yl)aminocarbonyl]-5-(methoxymethyl)isoxazole, trifluoroacetic acid salt

Part A. Preparation of methyl 3-(3-cyanophenyl)-5-(methoxymethyl)isoxazole-4-carboxylate. 30

Methyl 4-methoxyacetoacetate (1.6 mL, 12.2 mmol) was added to a solution of 12.2 mL (24.4 mmol) of 0.5 M NaOMe in methanol. A solution of 3-cyanobenzenehydroximinoyl chloride (2.0 g, 11.1 mmol) in 20 mL methanol was added slowly over 12 hours vis a syringe pump. The reaction mixture was diluted with 20 mL of saturated aqueous ammonium chloride and the organic layer separated. The aqueous solution was extracted

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with 10 mL EtOAc twice. The combined organic extracts were washed with 10 mL water three times then the organic extract was dried with MgSO₄ and concentrated *in vacuo*. The resulting thick oil (3.1 g) was chromatographed on silica with 10% Et₂O/benzene to give 1.14 g (38%) of the desired product. 1 H NMR (CDCl₃) δ : 7.98 (m, 1H); 7.91 (dd, J = 8.1, 2.9, 1H); 7.79 (dd, J = 8.1 , 2.9, 1H); 7.59 (t, J = 8.1, 1H); 4.91 (s, 2H); 3.83 (s, 3H); 3.53 (s, 3H) MS (NH₃-CI) m/z 273.0 (M+H).

Part B. Preparation of 3-(3-cyanophenyl)-5-(methoxymethyl)-isoxazole-4-carboxylic acid.

Methyl 3-(3-cyanophenyl)-5-(methoxymethyl)isoxazole-4-carboxylate (1.12 g, 4.1 mmol) was dissolved in 3 mL THF and 1 mL water. Lithium hydroxide monohydrate (0.20 g, 4.9 mmol) was added and the reaction was allowed to stir for 24 hours under N_2 . The solvent was removed in vacuo and redissolved in 100 mL of water. The resulting solution was extracted with 30 mL EtOAc twice then acidified with 1N HCl to pH 3. The acidic solution was extracted three times with 30 mL of EtOAc. The combined organic were dried with MgSO₄ and concentrated in vacuo to give the desired white solid (0.80 g, 75%). 1 H NMR (CDCl₃) δ : 7.98 (m, 1H); 7.91 (dd, J = 8.1, 2.9, 1H); 7.79 (dd, J = 8.1, 2.9, 1H); 7.59 (t, J = 8.1, 1H); 4.89 (s, 2H); 3.53 (s, 3H).

Part C. Preparation of 3-(3-cyanophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole.

Oxalyl chloride (1.15 mL of 2.0 M solution in CH_2Cl_2 , 2.3 mnmol) and 3-(3-cyanophenyl)-5-(methoxymethyl)isoxazole-4-carboxylic acid (0.40 g, 1.55 mmol) were stirred at room temperature under N_2 for 1 hour. The excess oxalyl chloride was removed in vacuo. The solid was dissolved in 15 mL CH_2Cl_2 and 0.58 g (1.9 mmol) of 2'-t-butylaminosulfonyl-4-amino-[1,1']-biphenyl and 0.65 mL (4.7 mmol) of triethylamine were added. After 12 hours, the reaction mixture was diluted with

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10 mL of water and the organic layer separated. The aqueous solution was extracted with 10 mL CH₂Cl₂ three times and the combined organic extracts were washed with 10 mL of each of the following: saturated aqueous NaHCO₃, 1M aqueous HCl and saturate aqueous brine. The organic extract was dried with MgSO₄ and concentrated in vacuo to give 0.63 g of an orange-brown solid. The solid was chromatographed on silica with 10% EtOAc/benzene to 0.63 g (74%) of the desired product. ¹H NMR (CDCl₃) δ: 9.50 (s, 1H); 8.16 (d, J = 8.1, 1H); 8.11 (s, 1H); 8.04 (d, J = 8.1, 1H); 7.78 (d, J = 8.1, 1H); 7.66 (d, j = 8.8, 2H); 7.60 (m, 1H); 7.56 (m, 2H); 7.50 (d, J = 8.8, 2H); 7.29 (d, J = 7.3, 1H); 4.89 (s, 2H); 3.67 (s, 3H); 1.03 (s, 9H).

- Part D. Preparation of 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole, trifluoroacetic acid salt.
- 3-(3-Cyanophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']20 biphen-4-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole (0.62 g,
 1.14 mmol) was dissolved in 7 mL of methanol and 20 mL of
 chloroform. The reaction mixture was cooled in an ice-bath
 and HCl gas was bubbled-in for 1.5 hours to saturate the
 solution. The mixture was sealed and allowed to stir at room
 temperature for 14 hours. The solvents were removed in vacuo
 and the resulting solid was used in the next step.

of ammonium carbonate and 20 mL of methanol. The mixture was allowed to stir under N_2 for 14 hours. The solvent was removed at reduced pressure. The crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in H_20/CH_3CN to give 0.37 g (65%) of the desired salt. ¹H NMR (DMSO- d_6) δ : 10.63 (s, 1H); 9.42 (s, 1H); 9.03 (br s, 2H); 9.05 (br s, 2H); 8.16 (s, 1H); 8.00 (m, 1H); 7.98 (m, 1H); 7.90 (d, J = 7.3, 1H); 7.76 (t, J = 8.1, 1H); 7.57 (m, 4H); 7.34 (d, J = 8.1, 2H); 7.28 (m, 1H); 4.77 (s, 2H); 3.34 (s, 3H). HRMS 506.1487

The imidate formed above was added with 0.44 g (5.7 mmol)

(M+H).

Example 13

2-Methyl-4-(3-amidinophenyl)-5-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroac tic acid salt

5 Part A. Preparation of 2-methyl-4-(3-cyanophenyl)-5-[4-bromophenyl)aminocarbonyl]thiazole.

To a solution of 4-bromoaniline (0.21 g, 1.2 mmol) in 25 mL of methylene chloride at room temperature was added 10 trimethylaluminum (1.02 mL of a 2.0M solution in toluene, 2.04 mmol) dropwwase. The reaction was stirred until gas evolution ceased and then 2-methyl-4-(3-cyanophenyl)-5carbomethoxythiazole from Example 3, Part A (0.26 g, 1.02 mmol) was added in 10 mL of methylene chloride. The resulting solution was stirred at 40° C for 16h and then was allowed to 15 cool to 25° C. This mixture was quenched with saturated ag NH4Cl, diluted with ethyl acetate, washed with water and brine, dried (MgSO₄) and concentrated in vacuo. The residue was purified by flash chromatography (elution with 4:1 20 hexanes/ethyl acetate) to afford 0.18'g (44%) of the title compound as a solid. MS (ESI) 398.0/400.0 (M+H)+.

Part B. Preparation of 2-methyl-4-(3-cyanophenyl)-5-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

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To a solution of 2-methyl-4-(3-cyanophenyl)-5-[4-bromophenyl) aminocarbonyl]thiazole (0.175 g, 0.44 mmol) in 25 mL of benzene was added 2-(trifluoromethyl)phenylboronic acid (0.118 g, 0.62 mmol); tetrabutylammonium bromide (0.006 g, 0.02 mmol); sodium carbonate (0.14 g, 1.3 mmol) and 1.2 mL of H₂O. This mixture was degassed with a stream of nitrogen and then tetrakis(triphenylphosphine)palladium (0.02 g, 0.02 mmol) was added and the reaction mixture was stirred at 80° C for 16 h. The mixture was allowed to cool to room temperature and then was diluted with ethyl acetate, washed with H₂O and brine, dried over MgSO₄ and was concentrated in vacuo to afford 0.166 g (83%) of the title compound, which was sufficiently pure to be used without purification. MS (ESI) 464.2 (M+H)+.

Part C. Preparation of 2-methyl-4-(3-amidinophenyl)-5-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

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Following the procedure described in Example 7, Part F, 2-methyl-4-(3-cyanophenyl)-5-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (0.166 g, 0.36 mmol) was converted into 45 mg (21%) of the title compound as a white solid following HPLC purification. MS (ESI) 481.3 (M+H)+.

Example 14

2-Phenyl-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt

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Part A. Preparation of 2-phenyl-4-(3-cyanophenyl)-5-carbomethoxythiazole.

To a solution of methyl 2-bromo-3-(3-cyanophenyl)-3
20 oxopropionate from Example 7, Part C (0.51 g, 1.8 mmol) in 20 mL of absolute ethanol was added thiobenzamide (0.25 g, 1.8 mmol). The resulting mixture was stirred at 80° C for 24h. The reaction was allowed to cool and then was filtered. The solid was washed with ethanol and dried in vacuo to yield 0.53 g (91%) of the title compound. MS (ESI) 321.1 (M+H)+.

Part B. Preparation of 2-phenyl-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

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Following the procedure of Example 7, Part E, 2-phenyl-4-(3-cyanophenyl)-5-carbomethoxythiazole (0.30 g, 0.94 mmol) was converted into 0.53 g (95%) of the title compound as a solid. MS (ESI) 593.3 (M+H)+.

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Part C. Preparation of 2-phenyl-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

Following the procedure of Example 9, Part C, 2-phenyl-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (0.53 g, 0.90 mmol) was converted into 61 mg of the title compound (10%) as a white powder following HPLC purification. 1 H NMR (DMSO-d₆) δ : 10.77 (s, 1H), 9.40 (broad s, 2H), 8.98 (broad s, 2H), 8.28 (broad s, 1H), 8.08 (m, 3H), 7.99 (d, 1H, J=8 Hz), 7.81 (d, 1H, J=8 Hz), 7.71 (t, 1H, J=8 Hz), 7.61-7.52 (m, 7H), 7.38-7.22 (m, 5H). MS (ESI) 554.3 (M+H)+.

Example 15

3-(3-amidinophenyl)-4-[(3-fluoro-2'-methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

Part A. Preparation of 3-fluoro-2'-methylthio-[1,1']-biphenylamine.

A benzene solution (100 mL) of 2-methylthiophenylboronic 20 acid (2.07 g, 12.3 mmol); 4-bromo-2-fluoro aniline (1.06 g, 5.6 mmol); aq. Na_2CO_3 (12.5 mL, 2 M, 25 mmol); and tetra nbutyl ammonium bromide (90 mg, 0.3 mmol) was purged with vacuum and Ar. Bis(triphenylphosphine)palladium (II) chloride (195 mg, 0.3 mmol) was added, and the reaction was refluxed 10 25 After cooling, the reaction was diluted with EtOAc and H2O, the layers were separated, the organic was dried over Na₂SO₄, filtered, and evaporated. The crude product was chromatographed on silica gel (10% EtOAc/hexanes) to yield the desired product (1.05 g, 81%). ¹H NMR (CDCl₃) δ : 7.29 (m, 2H); 30 7.18 (m, 2H); 7.09 (dd, 1H, J = 11.7, J' = 1.8); 7.01 (dd, 1H,J = 8.0, J' = 1.4); 6.82 (t, 1H, J = 9.2); 3.79 (bs, 2H); 2.38 (s, 3H).

Part B. Preparation of 3-(3-cyanophenyl)-4-[(3-fluoro-2'-35 methylthio-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole.

Trimethyl aluminum (1.3 mL, 2.0 M in heptane, 2.6 mmol) was added to the 4- amino-3-fluoro-2'-methylthio-[1,1']-

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biphenyl (309 mg, 1.3 mmol) in CH_2Cl_2 (7 mL) and stirred at room temp 25 min. Then methyl 3-(3-cyanophenyl)isoxazole-4-carboxylate isoxazole (300 mg, 1.3 mmol) was added and stirred 48 h. More trimethyl aluminum (1.3 mL, 2.6 mmol) and CH_2Cl_2 (5 mL) were added. After an additional 3 days, the reaction was quenched carefully with 1N HCl and extracted into CH_2Cl_2 . The organic layer was further washed with H_2O and brine, dried over Na_2SO_4 , filtered, and evaporated. The crude produc was chromatographed on silica gel (20-30% EtOAc/hexanes followed by 2%MeOH/CHCl₃) to yield the desired product (0.50 g, 89%). ¹H NMR (CDCl₃, 400 MHz) δ : 9.07 (s, 1H); 8.34 (bt, 1H, J = 8.3); 8.13 (t, 1H, J = 1.2); 8.04 (dt, 1H, J = 7.8, J' = 1.2); 7.84

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Part C. Preparation of 3-(3-cyanophenyl)-4-[(3-fluoro-2'-methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole.

(dt, 1H, J = 7.8, J' = 1.4); 7.67 (t, 1H, J = 8.1); 7.57 (bs, 1H); 7.35 (m, 1H); 7.28 (m, 1H); 7.19 (m, 4H); 2.38 (s, 1H).

To a chloroform solution (50 mL) of 3-(3-cyanophenyl)-4-20 [(3-fluoro-2'-methylthio-[1,1']-biphen-4yl)aminocarbonyl]isoxazole (0.47 g, 1.1 mmol); m-CPBA (351 mg, 57-86%, max 1.7 mmol) was added. The resulting mixture was stirred at room temp under Ar 22 h. Additional m-CPBA (94mg of 50-60% and 348mg of 57-86%, max 2.1 mmol) was added and 25 stirred 4 h. The reaction was extracted with sat. aq. Na₂SO₃ and sat. NaHCO3, dried over Na2SO4, filtered, and evaporated. The crude product was chromatographed on silica gel (30-50% EtOAc/hexanes) to yield the desired sulfone (447 mg, 88%). NMR (CDCl₃) δ : 9.10 (s, 1H); 8.41 (t, 1H, J = 8.4); 8.22 (dd, 30 1H, J = 7.7, J' = 1.5); 8.12 (d, 1H, J = 1.5); 8.05 (dt, 1H, J = 8.1, J' = 1.5); 7.86 (dt, 1H, J = 7.7, J' = 1.5); 7.64 (m, 4H); 7.28 (m, 3H); 2.73 (s, 3H).

Part C. Preparation of 3-(3-amidinophenyl)-4-[(3-fluoro-2'-35 methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt.

Solid 3-(3-cyanophenyl)-4-[(3-fluoro-2'-methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole (423 mg, 0.92 mmol) was suspended in methanol (15 mL) and cooled to 0°C. was generated by the addtion of conc. H_2SO_4 (90 mL) into solid NaCl (360 g) over 1 h. The HCl (g) continued bubbling through the reaction an additional 90 min, at which time the generator and ice bath were removed. The reaction stirred under argon 20 h and was evaporated. After a few hours under high vacuum, the reaction was redissolved in methanol (15 mL); and ammonium 10 carbonate (440 mg, 4.6 mmol) was added. The reaction was stirred 22 h and evaporated. The crude product was purified by prep HPLC on a C-18 reverse phase column (20-80% MeCN/H₂O/0.05% TFA) to yield a white solid (0.14 g, 26%). NMR (DMSO- d_6) δ : 10.47 (s, 1H); 9.68 (s, 1H); 9.40 (s, 1.5H); 15 9.01 (s, 1.5 H); 8.16 (s, 1H); 8.06 (m, 2H); 7.91 (d, 1H, J =8.1); 7.72 (m, 4H); 7.37 (m, 2H); 7.21 (d, 1H, J = 8.1); 2.90 (s, 3H). HRMS calc. for $C_{24}H_{20}FN_4O_4S$, 479.1189; found, 479.1169.

20 Example 16

3-(3-amidinophenyl)-4-[(2'-trifluoromethylthio-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

Part A. Preparation of 3-(3-cyanophenyl)-4-[(2'-trifluoro-methylthio-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole.

Trimethyl aluminum (2.6 mL, 2.0 M in heptane, 5.2 mmol) was added to the 4-amino-2'-trifluoromethylthio-[1,1']-biphenyl (361 mg, 1.3 mmol); in CH_2Cl_2 (5 mL) and stirred at room temp 8 min. A CH_2Cl_2 solution (5 mL) of methyl 3-(3-cyanophenyl)isoxazole-4-carboxylate (300 mg, 1.3 mmol) was added and stirred 2 days. No further reaction was observed after adding more trimethyl aluminum (650 mL) and stirring an additional 20 hr. The reaction was quenched cwerefully with 1 M HCl and extracted into CH_2Cl_2 . The organic was extracted again with water and brine, dried over Na_2SO_4 , filtered, and evaporated. The crude mixture was chromatographed on silica gel (30% EtOAc/hexanes) to yield a yellow solid (565 mg, 92%).

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¹H NMR (CDCl₃) δ : 9.02 (s, 1H); 8.17 (s, 1H); 8.09 (d, 1H, J = 8.1); 7.82 (t, 2H, J = 8.1); 7.66 (t, 1H, J = 7.7); 7.53 (m, 4H); 7.42 (t, 2H, J = 7.7); 7.32 (d, 2H, J = 8.4).

5 Part B. Preparation of 3-(3-amidinophenyl)-4-[(2'-trifluoro-methylthio-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole.

A methanol solution (10 mL) of 3-(3-cyanophenyl)-4-[(2'trifluoromethylthio-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole (137 mg, 0.29 mmol) was cooled to 0° C. HCl was generated by 10 the slow addition of conc. H_2SO_4 (60 mL) to solid NaCl (240 g) over 1 h. The HCl thus generated was bubbled into the reaction mixture over 2 h. The generator and ice bath were removed, and the reaction stirred under Ar 16 h. The reaction 15 was evaporated, placed briefly under high vacuum, and redissolved in methanol (10 mL). Ammonium carbonate (138 mg. 1.4 mmol) was added. After stirring 19 h, the reaction was evaporated and purified by prep HPLC on a C-18 reverse phase column (20-80% MeCN/ $H_2O/0.05\%$ TFA) to yield a white powder (84 20 mg, 48%). ¹H NMR (DMSO-d₆) δ : 10.66 (s, 1H); 9.66 (s, 1H); 9.41 (s, 2H); 8.98 (s, 2H); 8.18 (s, 1H); 8.06 (d, 1H, J = 7.6);7.91 (d, 1H, J = 8.5); 7.82 (d, 1H, J = 6.9); 7.68 (m, 4H); 7.50 (m, 2H); 7.35 (d, 2H, J = 8.8). ¹⁹F NMR (DMSO-d₆) -42.45, -73.86. HRMS calc. for $C_{24}H_{18}F_3N_4O_2S$, 483.1103; found, 483.1101.

Example 17

3-(3-amidinophenyl)-5-amino-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetic acid salt

Part A. Preparation of methyl N-(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)cyanoacetamide.

Added to the 4-amino-2'-t-butylaminosulfonyl-[1,1']-biphenyl (2.0 g, 6.6 mmol); in CH₂Cl₂ (10 mL) and stirred at room temp 30 min. A CH₂Cl₂ solution (5 mL) of methyl cyanoacetate (0.58 mL, 6.6 mmol) was added and stirred 1 day. The reaction was quenched carefully with 1 M HCl and extracted into CH₂Cl₂. The organic was extracted again with water and

brine, dried over MgSO₄, filtered, and evaporated. The crude mixture was chromatographed on silica gel (50% EtOAc/hexanes) to yield a yellow solid (0.81 g, 33%). 1 H NMR (CDCl₃) δ : 8.74 (s, 1H); 8.16 (d, J = 7.7, 1H); 7.64 (d, J = 8.8, 2H); 7.58 (d, J = 7.3, 1H); 7.66 (d, J = 8.1, 1H); 7.46 (d, J = 8.4, 2H); 7.31 (d, J = 7.7, 1H); 3.89 (s, 1H); 3.63 (s, 2H); 1.04 (s, 9H). MS (NH₃-CI) m/z 389 (M+NH₃).

Part B. Preparation of 3-(3-cyanophenyl)-5-amino-4-[(2'-10 aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetate salt.

Methyl N-(2'-t-butylaminosulfonyl-[1,1']-biphén-4yl)cyanoacetamide (0.81 g, 2.18 mmol) was added to a solution 15 of triethylmine (0.33 g, 3.27 mmol) in 25 mL of ethanol and 5 mL of CH₂Cl₂. A solution of 3-cyanobenzenehydroximinoyl chloride (0.39 g, 2.18 mmol) in 10 mL ethanol was added slowly over 12 hours via a syringe pump. The reaction mixture was diluted with 50 mL of ether and washed three times with 10 mL 20 of water and twice with 10 mL saturated NaHCO3, then dried with MgSO₄ and concentrated in vacuo. The resulting off-white solid was purified by prep HPLC on a C-18 reverse phase column (30-100% MeCN/H₂O/0.05% TFA) to yield a white powder (0.10 g, 8.3%). ^{1}H NMR (CDCl $_{3}$) δ : 9.09 (s, 1H); 8.03 (s, 1H); 7.99 (d, J 25 = 6.2, 1H); 7.92 (t, J = 7.7, 2H); 7.72 (br s, 2H); 7.59 (t, J= 7.7, 1H); 7.53 (m, 2H); 7.45 (d, J = 8.4, 2H); 7.26 (d, J =8.4, 2H); 7.25 (m, 1H); 6.51 (s, 1H), 0.97 (s, 9H). MS (NH $_3$ -CI) m/z 273.0 (M+H).

- Part C. Preparation of 3-(3-amidinophenyl)-5-amino-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole, trifluoroacetate salt.
- 3-(3-cyanophenyl)-5-amino-4-[(2'-aminosulfonyl-[1,1']-35 biphen-4-yl)aminocarbonyl]isoxazole (0.10 g, 0.19 mmol) was dissolved in 1 mL of methanol and 4 mL of chloroform. The reaction mixture was cooled in an ice-bath and HCl gas was bubbled-in for 10 minutes to saturate the solution. The

mixture was sealed and allowed to stir at room temperature for 14 hours. The solvents were removed in vacuo and the resulting solid was used in the next step.

The imidate formed above was added with 0.07 g (0.95 mmol) of ammonium carbonate and 10 mL of methanol. The mixture was allowed to stir under N₂ for 14 hours. The solvent was removed at reduced pressure. The crude benzamidine was purified by HPLC (C18 reversed phase) eluting with 0.5% TFA in H₂0/CH₃CN to give 0.0064 g (7%) of the desired salt. ¹H NMR (DMSO-d₆) δ: 9.39 (br s, 2H); 9.12 (s, 1H); 8.96 (br s, 2H); 8.06 (s, 1H); 7.98 (d, J = 7.7, 1H); 7.96 (d, J = 7.8, 1H); 7.88 (d, J = 7.7, 1H); 7.74 (br s, 2H); 7.70 (t, J = 7.8, 1H); 7.54 (m, 3H); 7.42 (d, J = 8.8, 2H); 7.26 (d, J = 8.8, 2H); 7.25 (m, 1H); 7.21 (br s, 2H); 6.51 (s, 1H). HRMS m/z 477.1338 (M+H).

Example 18

2-(Phenylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

Part A. Preparation of ethyl 3-(3-cyanophenyl)-3oxopropionate.

To a suspension of sodium hydride (1.2 g of 60% suspension in mineral oil, hexane-washed, 30.3 mmol) in 40 mL of tetrahydrofuran was added diethyl carbonate (3.7 mL, 30.3 mmol) and 3-acetyl benzonitrile (2.2 g, 15.2 mmol). The resulting suspension was stirred at 65° C for 1 h and then was cooled to room temperature. There was added 40 mL of 10% aqueous HCl and the reaction mixture was diluted with ethyl acetate and the layers were separated. The organic layer was washed with brine, dried (MgSO₄) and concentrated in vacuo to afford 3.2 g (96%) of the title compound, which was sufficiently pure to be used without purification. MS (NH₃-CI) 218.3 (M+H)+.

Part B. Preparation of ethyl 2-bromo-3-(3-cyanophenyl)-3-oxopropionate.

According to the procedure of Example 7, Part C, ethyl 3-(3-cyanophenyl)-3-oxopropionate (3.2 g, 14.7 mmol) was converted into the crude bromide, which was purified by flash chromatography (elution with 4:1 hexanes/ethyl acetate) to afford 2.1 g (48%) of the title compound. MS (H₂O, GC/MS) 296/298 (M+H)+.

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Part C. Preparation of 2-(phenylamino)-4-(3-cyanophenyl)-5-carboethoxythiazole.

To a solution of ethyl 2-bromo-3-(3-cyanophenyl)-3oxopropionate (0.60 g, 2.03 mmol) in 20 mL of absolute ethanol
was added N-phenylthiourea (0.31 g, 2.03 mmol). The resulting
mixture was stirred at 80°C for 3h. The reaction was allowed
to cool and the solvent was evaporated in vacuo. The residue
was taken up in ethyl acetate, washed with saturated aq NaHCO₃
and brine, dried (MgSO₄) and concentrated in vacuo to yield a
solid. Trituration with hexanes/ethyl ether left the title
compound as an off-white solid (0.35 g, 49%). MS (NH3-CI) 350
(M+H)+.

Part D. Preparation of 2-(phenylamino)-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole.

Following the procedure of Example 7, Part E, 2-30 (phenylamino)-4-(3-cyanophenyl)-5-carboethoxythiazole (0.29 g, 0.83 mmol) was converted into 0.37 g (74%) of the title compound as a solid. MS (ESI) 608.3 (M+H)+.

Part E. Preparation of 2-(phenylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

Following the procedure of Example 9, Part C, 2- (phenylamino)-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (350 mg, 0.58 mmol) was converted into 50 mg of the title compound (12%) as an off-white powder following HPLC purification. 1 H NMR (DMSO-d₆) δ : 10.70 (s, 1H), 10.25 (s, 1H), 9.41 (broad s, 2H), 9.02 (broad s, 2H), 8.19 (m, 1H), 8.08 (d, 1H, J=7.7 Hz), 8.03 (d, 1H, J=8.0 Hz), 7.73-7.54 (m, 8H), 7.41-7.27 (m, 8H). MS (ESI) 569.0 (M+H)+.

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Example 19

2-(Benzylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

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Part A. Preparation of 2-(benzylamino)-4-(3-cyanophenyl)-5-carboethoxythiazole.

oxopropionate (0.60 g, 2.03 mmol) in 20 mL of absolute ethanol was added N-benzylthiourea (0.34 g, 2.03 mmol). The resulting mixture was stirred at 80° C for 3h. The reaction was allowed to cool and the solvent was evaporated in vacuo. The residue was taken up in ethyl acetate, washed with saturated aq NaHCO3 and brine, dried (MgSO4) and concentrated in vacuo to yield a solid. Trituration with hexanes/ethyl ether left the title compound as an off-white solid (0.36 g, 49%). MS (ESI) 364.1 (M+H)+.

Part B. Preparation of 2-(benzylamino)-4-(3-cyanophenyl)-5[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole.

Following the procedure of Example 7, Part E, 2
(benzylamino)-4-(3-cyanophenyl)-5-carboethoxythiazole (0.27 g,

0.74 mmol) was converted into 0.30 g (65%) of the title

compound as a yellowwash solid. MS (ESI) 622.3 (M+H)+.

Part C. Preparation of 2-(benzylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

5 Following the procedure of Example 9, Part C, 2(benzylamino)-4-(3-cyanophenyl)-5-[(2'-tertbutylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole
(260 mg, 0.42 mmol) was converted into 95 mg of the title
compound (33%) as an off-white powder following HPLC
10 purification. ¹H NMR (DMSO-d₆) δ: 9.97 (s, 1H), 9.36 (broad s,
2H), 8.98 (broad s, 2H), 8.78 (t, 1H, J=5.9 Hz), 8.09 (broad
s, 1H), 8.02 (dd, 1H, J=7.8, 1.6 Hz), 7.98 (d, 1H, J=7.8 Hz),
7.76 (d, 1H, J=8.0 Hz), 7.66-7.25 (m, 15H), 4.58 (d, 2H, J=5.9
Hz). MS (ESI) 583.0 (M+H)+.

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Examples 20 and 21

2-(methylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic
acid salt (Example 20) and 2-(methylamino)-4-(3carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole (Example 21)

Part A. Preparation of 2-(methylamino)-4-(3-cyanophenyl)-5-carboethoxythiazole.

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To a solution of ethyl 2-bromo-3-(3-cyanophenyl)-3-oxopropionate (0.65 g, 2.2 mmol) in 20 mL of tetrahydrofuran was added N-methylthiourea (0.20 g, 2.2 mmol). The resulting mixture was stirred at 65° C for 16h. The reaction was allowed to cool and the solvent was evaporated in vacuo. The residue was taken up in ethyl acetate, washed with saturated aq NaHCO3 and brine, dried (MgSO4) and concentrated in vacuo to yield a solid. Trituration with hexanes/ethyl ether left the title compound as an off-white solid (0.46 g, 73%). MS (ESI) 288.3 (M+H)+.

Part B. Preparation of 2-(methylamino)-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

- Following the procedure of Example 7, Part E, 2- (methylamino)-4-(3-cyanophenyl)-5-carboethoxythiazole (0.46 g, 1.6 mmol) was converted into 0.68 g (78%) of the title compound as a yellowish solid. MS (ESI) 546.7 (M+H)+.
- Part C. Preparation of 2-(methylamino)-4-(3-amidinophenyl)-5[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole,
 trifluoroacetic acid salt (Example 6) and 2-(methylamino)-4(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole (Example 20).

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Following the procedure of Example 9, Part C, 2
(methylamino)-4-(3-cyanophenyl)-5-[(2'-tert
butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole

(500 mg, 1.0 mmol) was converted into 85 mg of the title

compound (13%), 2-(methylamino)-4-(3-amidinophenyl)-5-[(2'
aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole,

trifluoroacetic acid salt (Example 20) as a white powder

following HPLC purification. ¹H NMR (DMSO-d₆) & 9.89 (s, 1H),

9.33 (broad s, 2H), 8.96 (broad s, 2H), 8.05 (broad s, 1H),

7.95 (m, 2H), 7.72 (d, 1H, J=8.0 Hz), 7.62-7.44 (m, 6H), 7.29
7.21 (m, 5H), 2.89 (d, 3H). MS (ESI) 507.2 (M+H)+. There was

also isolated 50 mg (8%) of 2-(methylamino)-4-(3
carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4
yl)aminocarbonyl]thiazole (Example 21). MS (ESI) 508.1 (M+H)+.

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Examples 22 and 23

2-methyl-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 22) and 2-methyl-4-(3-carboxamidophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole (Example 23)

Part A. Preparation of 2-methyl-4-(3-cyanophenyl)-5-carboxythiazole.

To a solution of of 2-methyl-4-(3-cyanophenyl)-5-5 carbomethoxythiazole from Example 9, Part A (0.96 g, 3.7 mmol) in 20 mL of tetrahydrofuran and 10 mL of water was added lithium hydroxide monohydrate (0.31 g, 7.4 mmol). resulting mixture was stirred at room temperature for 16 h. The mixture was concentrated in vacuo, diluted with H_2O and 10 saturated aqueous NaHCO3 and extracted with hexane. organic layer was discarded and the aqueous layer was acidified and extracted twice with ethyl acetate. combined ethyl acetate extracts were washed with brine, dried over MgSO₄ and concentrated in vacuo to afford 0.90 g (99%) of 15 the title compound, which was sufficiently pure to be used without purification. MS (NH3-CI) 245 (M+H)+.

Part B. Preparation of 2-methyl-4-(3-cyanophenyl)-5-[[5-(2'-tert-butylaminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole.

To a solution of 2-methyl-4-(3-cyanophenyl)-5-carboxythiazole (0.22 g, 0.89 mmol) in 10 mL of acetonitrile was added thionyl chloride (0.60 g, 5.0 mmol) and 2 drops of dimethylformamide. 25 resulting solution was allowed to stir at 50°C for 10 min and then at room temperature for 1 h. The solution was concentrated in vacuo, the residue was dissolved in 20 mL of methylene chloride and then [[5-(2'-tert-butylaminosulfonylphenyl-1-yl)pyridin-2-yl]amine (0.30 g, 0.98 mmol) and triethylamine (1.3 mL, 8.9 mmol) were added. 30 The reaction mixture was allowed to stir at 25° C for 16 h. reaction was diluted with ethyl acetate, washed with 10% ag HCl. saturated aq NaHCO3 and brine, dried (MgSO4); filtered through a pad of silica gel and concentrated in vacuo. The residue was purified by flash chromatography (elution with 3:1 hexanes/ethyl acetate) to 35 afford 0.07 g (15%) of the title compound. MS (ESI) 532.2 (M+H)+.

Part C. Preparation of 2-methyl-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole,

trifluoroacetic acid salt (Example 22) and 2-methyl-4-(3-carboxamidophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole (Example 23).

Following the procedure described in Example 9, Part C, 2-methyl-4-(3-cyanophenyl)-5-[[5-(2'-tert-butylaminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole (0.07 g, 0.14 mmol) was converted into 10 mg (16%) of 2-methyl-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 22) following HPLC purification. MS (ESI) 493.1 (M+H)+. There was also isolated 25 mg (29%) of 2-methyl-4-(3-carboxamidophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole (Example 23). MS (ESI) 494.1 (M+H)+.

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Examples 24 and 25

2-(3-pyridyl)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 24) and 2-(3-pyridyl)-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (Example 25)

Part A. Preparation of 2-(3-pyridyl)-4-(3-cyanophenyl)-5-carboethoxythiazole.

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To a solution of ethyl 2-bromo-3-(3-cyanophenyl)-3-oxopropionate (1.0 g, 3.4 mmol) in 20 mL of tetrahydrofuran was added thionicotinamide (0.46 g, 3.4 mmol). The resulting mixture was stirred at 65° C for 16h. The reaction was allowed to cool and the solvent was evaporated in vacuo. The residue was triturated with chloroform, taken up in ethyl acetate, washed with saturated aq Na₂CO₃ and brine, dried (MgSO₄) and concentrated in vacuo to yield a solid. Trituration with ethyl acetate left the title compound as an off-white solid (0.26 g, 23%). MS (ESI) 336.1 (M+H)+.

Part B. Preparation of 2-(3-pyridyl)-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

- 5 4-(3-cyanophenyl)-5-carboethoxythiazole (0.26 g, 0.77 mmol) was converted into 0.24 g (52%) of the title compound as a yellowish solid. MS (ESI) 594.1 (M+H)+.
- Part C. Preparation of 2-(3-pyridy1)-4-(3-amidinopheny1)-5
 [(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole,
 trifluoroacetic acid salt (Example 24) and 2-(3-pyridyl)-4-(3carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole (Example 25).
- Following the procedure of Example 9, Part C, 2-(3-pyridyl)-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (0.24 g, 0.45 mmol) was converted into 80 mg of the title compound (27%) of 2-(3-pyridyl)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-
- biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt
 (Example 24) as a white powder following HPLC purification. ¹H
 NMR (DMSO-d₆) δ: 10.82 (s, 1H), 9.41 (broad s, 2H), 9.30 (broad s, 1H), 9.02 (broad s, 2H), 8.75 (d, 1H, J=5.5 Hz), 8.43 (d, 1H, J=8 Hz), 8.30 (broad s, 1H), 8.10 (d, 1H, J=8 Hz), 7.98
- 25 (d, 1H, J=8 Hz), 7.82 (d, 1H, J=8 Hz), 7.70 (t, 1H, J=8 Hz), 7.62-7.50 (m, 5H), 7.38-7.22 (m, 5H). MS (ESI) 555.0 (M+H)+. There was also isolated 30 mg (10%) of 2-(3-pyridyl)-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (Example 25). ¹H NMR (DMSO-d₆) δ:
- 10.72 (s, 1H), 9.28 (broad s, 1H), 8.75 (broad s, 1H), 8.42 (m, 2H), 8.09 (broad s, 1H), 7.98 (d, 1H, J=8 Hz), 7.90 (m, 2H), 7.62-7.50 (m, 6H), 7.42 (broad s, 1H), 7.37-7.26 (m, 3H), 7.21 (broad s, 2H). MS (ESI) 578.0 (M+Na)+.

35 Examples 26 and 27

2-chloro-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 26) and 2-chloro-4-(3-carboxamidoph nyl)-5-[(2'-

Part A. Preparation of 2-amino-4-(3-cyanophenyl)-5carboethoxythiazole.

To a solution of ethyl 2-bromo-3-(3-cyanophenyl)-3-oxopropionate (4.0 g, 13.5 mmol) in 100 mL of tetrahydrofuran was added thiourea (1.03 g, 13.5 mmol). The resulting mixture was stirred at 65° C for 16h. The reaction was allowed to cool and the solvent was evaporated *in vacuo*. The residue was triturated with ether, taken up in ethyl acetate, washed with saturated aq Na2CO3 and brine, dried (MgSO₄) and concentrated *in vacuo* to yield a solid. Trituration with ethyl ether left the title compound as an off-white solid (3.79 g, 98%).

Part B. Preparation of 2-chloro-4-(3-cyanophenyl)-5-carboethoxythiazole.

- 20 To a suspension of anhydrous copper (II) chloride (1.86 g, 13.9 mmol) in 180 mL of acetonitrile was added tert-butyl nitrite (1.43 g, 1.39 mmol). The solution was warmed to reflux and then 2-amino-4-(3-cyanophenyl)-5carboethoxythiazole (3.79 g, 13.9 mmol) in 50 mL of 25 acetonitrile was added via addition funnel over 5 min. mixture was stirred at reflux until gas evoultion ceased (about 30 min). The reaction was cooled to room temperature, poured into 10% ag Hcl and extracted with ether. layer was washed with saturated aq NaHCO3 and brine, dried 30 (MgSO4) and concentrated to afford 3.44 g (82%) of the title compound which was used without purification. MS (NH3-CI) 293.2 (M+H)+.
- Part C. Preparation of 2-chloro-4-(3-cyanophenyl)-5-[(2'-35 tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

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Cyanophenyl)-5-carboethoxythiazole (0.084 g, 0.3 mmol) was converted into 0.056 g (34%) of the title compound as a solid. MS (ESI) 551.0 (M+H)+.

Part D. Preparation of 2-chloro-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 26) and 2-chloro-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (Example 27).

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Following the procedure of Example 9, Part C, 2-chloro-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (0.056 g, 0.11 mmol) was converted into 15 mg of the title compound (23%) of 2-chloro-4-(3-15 amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4yl)aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 26) as a white powder following HPLC purification. $(DMSO-d_6) \delta: 10.77 (s, 1H), 9.40 (broad s, 2H), 8.96 (broad s,$ 2H), 8.15 (broad s, 1H), 7.98 (m, 2H), 7.80 (d, 1H, J=8 Hz), 20 7.69 (d, 1H, J=8 Hz), 7.61-7.52 (m, 4H), 7.37-7.23 (m, 5H). MS (ESI) 512.0 (M+H)+. There was also isolated 20 mg (31%) of 2-chloro-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']biphen-4-yl)aminocarbonyl]thiazole (Example 27). H NMR (DMSO d_6) δ : 10.68 (s, 1H), 8.28 (broad s, 1H), 8.05 (broad s, 1H), 25 7.98 (d, 1H, J=8 Hz), 7.89 (d, 1H, J=8 Hz), 7.78 (d, 1H, J=8

Examples 28, 29 and 30

Hz), 7.61-7.52 (m, 5H), 7.40 (broad s, 1H), 7.37-7.23 (m, 3H),

7.21 (broad s, 2H). MS (ESI) 534.9 (M+Na)+.

2-chloro-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid
salt (Example 28), 2-chloro-4-(3-carboxamidophenyl)-5-[[5-(2'aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole
 (Example 29), and 2-hydroxy-4-(3-amidinophenyl)-5-[[5-(2'aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole,
 trifluoroacetic acid salt (Example 30)

Part A. Preparation of 2-chloro-4-(3-cyanophenyl)-5-carboxythiazole.

To a solution of of 2-chloro-4-(3-cyanophenyl)-5
5 carboethoxythiazole (0.44 g, 1.45 mmol) in 25 mL of methanol and 25 mL of water was added potassium hydroxide (0.09 g, 1.6 mmol). The resulting solution was stirred at reflux for 2h and then was cooled to room temperature. The methanol was removed in vacuo and the aqueous layer was diluted with water and washed with hexanes. The hexane layer was discarded. The aqueous layer was acidified and extracted with ethyl acetate. The ethyl acetate layer was washed with brine, dried (MgSO4) and concentrated to yield 0.33g (97%) of the title compound which was used without further purification. MS (ESI)- 262.9

15 (M-H)-.

Part B. Preparation of 2-chloro-4-(3-cyanophenyl)-5-[[5-(2'-tert-butylaminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole.

20

;

Following the procedure described in Example 22, Part B, 2-chloro-4-(3-cyanophenyl)-5-carboxythiazole (0.35 g, 1.33 mmol) was converted into 0.20 g (27%) of the title compound. MS (ESI) 552.0 (M+H)+.

25

Part C. Preparation of 2-chloro-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 28) and 2-chloro-4-(3-carboxamidophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 29) and 2-hydroxy-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 30).

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Following the procedure described in Example 3, Part C, 2-chloro-4-(3-cyanophenyl)-5-[[5-(2'-tert-butylaminosulfonylphenyl-1-yl)pyridin-2-

yl]aminocarbonyl]thiazole (0.20 g, 0.4 mmol) was converted into 75 mg (32%) of 2-chloro-4-(3-amidinophenyl)-5-[[5-(2'aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 28) following HPLC ¹H NMR (DMSO- d_6) δ : 9.38 (broad s, 2H), 8.98 5 purification. (broad s, 2H), 8.28 (d, 1H, J=1.5 Hz), 8.15 (broad s, 1H), 8.03-7.96 (m, 3H),.7.81 (m, 2H), 7.70-7.57 (m, 4H), 7.40 (broad s, 1H), 7.36 (m, 2H). MS (ESI) 513.0 (M+H)+. also isolated 2-chloro-4-(3-carboxamidophenyl)-5-[[5-(2'-10 aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole (Example 29). MS (ESI) 513.9 (M+H)+. There was also isolated 2-hydroxy-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1yl)pyridin-2-yl]aminocarbonyl]thiazole, trifluoroacetic acid salt (Example 30). MS (ESI) 495.0 (M+H)+.

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Example 31

2-Chloro-4-(3-aminophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt

20 Part A. Preparation of ethyl 3-(3-nitrophenyl)-3-oxopropionate.

To a suspension of anhydrous tin (II) chloride (2.5 g, 13.2 mmol) in 150 mL of methylene chloride was added ethyl 25 diazoacetate (8.3 g, 72.8 mmol). Then 3-nitrobenzaldehyde (10.0 g, 66.2 mmol) was added as a solid in small portions over 30 min. The resulting suspension was stirred at room temperature for 24 h. Additional tin (II) chloride (2.5 g) was added and the reaction was stirred an additional 24 h. 30 The reaction was concentrated in vacuo, diluted with ethyl acetate, washed with water (2 times) and brine, dried (MgSO4) and concentrated. The residue was purified by flash chromatography (elution with 4:1 hexanes/ethyl acetate) to afford 5 g (32%) of the title compound. ^{1}H NMR (CDCl₃) 35 (approximately 12:1 mixture of enol and keto tautomers, data for enol only) δ : 12.6 (s, 1H); 8.60 (t, 1H, J=1.8 Hz); 8.3 (m, 1H); 8.1 (m, 1H); 7.62 (t, 1H, J=7.9 Hz) 5.77 (s, 1H); 4.30 (q, 2H, J=7.2 Hz); 1.35 (t, 3H, J=7.2 Hz).

Part B. Preparation of 2-amino-4-(3-nitrophenyl)-5-carboethoxythiazole.

- 5 To a solution of ethyl 3-(3-nitrophenyl)-3-oxopropionate (3.45 g, 14.5 mmol) in 100 mL of acetonitrile was added hydroxy(tosyloxy)iodobenzene (6.3 g, 16.0 mmol). resulting suspension was stirred at 65° C for 1h at which time the reaction was a homogeneous solution. Thiourea (1.22 g. 10 16.0 mmol) was added and stirring was continued at 65° C for 2 The mixture was cooled and concentrated, and the residue was taken up in ethyl acetate, washed with saturated ag Na2CO3 and brine, dried (MgSO₄) and concentrated. The residue was triturated with ethyl ether to afford 3.0 g (71%) of the title 15 compound as a yellow solid. ¹H NMR (DMSO-d₆) δ : 8.47 (t, 1H, J=1.9 Hz); 8.24 (m, 1H); 8.21 (m, 1H); 7.97 (broad s, 2H); 7.65 (t, 1H, J=8.1 Hz); 4.08 (q, 2H, J=7.1 Hz); 1.11 (t, 3H, J=7.1 Hz).
- 20 Part C. Preparation of 2-amino-4-(3-nitrophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

Following the procedure of Example 7, Part E, 2-amino-4-(3-nitrophenyl)-5-carboethoxythiazole (0.30 g, 1.02 mmol) was converted into 0.22 g (39%) of the title compound as a solid. MS (ESI) 574.0 (M+Na)+.

Part D. Preparation of 2-chloro-4-(3-nitrophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-

30 yl)aminocarbonyl]thiazole.

Following the procedure described in Example 26, Part B, 2-amino-4-(3-nitrophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (155 mg, 0.28 mmol) was converted into 150 mg (94%) of the title compound which was used without purification. MS (NH₃-CI) 588 (M+NH4)+.

Part E. Preparation of 2-chloro-4-(3-aminophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

5 To a solution of 2-chloro-4-(3-nitrophenyl)-5-[(2'-tertbutylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (100 mg, 0.18 mmol) in ethyl acetate was added tin (II) chloride dihydrate (0.32 g, 1.4 mmol). The resulting suspension was stirred at reflux for 2 h and then was cooled 10 and quenched with saturated aq NaHCO3. The reaction was diluted with ethyl acetate, washed with brine, dried (MgSO4) and concentrated to yield 90 mg (93%) of an amine which was used without purification. The residue was taken up in 5 mL of trifluoroacetic acid and stirred at reflux for 15 min. 15 reaction was concentrated and the residue was purified by prep HPLC to afford 40 mg (37%) of the title compound as a white powder. H NMR (DMSO-d₆) δ : 10.67 (s, 1H), 7.98 (d, 1H, J=8 Hz), 7.60-7.50 (m, 4H), 7.34-7.19 (m, 7H), 7.11 (broad m, 1H), 6.84 (broad m, 1H). MS (ESI) 484.9 (M+H)+.

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Example 32

2-amino-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic
acid salt

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Part A. Preparation of ethyl 3-[(3-nitro-4-chloro)phenyl]-3-oxopropionate.

Following the procedure described in Example 31, Part A, 4-chloro-3-nitrobenzaldehyde (10.0 g, 53.9 mmol) was converted into 4.8 g (33%) of the title compound as a yellow solid. ^{1}H NMR (CDCl₃) (approximately 15:1 mixture of enol and keto tautomers, data for enol only) δ : 12.6 (s, 1H); 8.25 (d, 1H); 7.9 (dd, 1H); 7.6 (d, 1H) 5.7 (s, 1H); 4.27 (q, 2H); 1.35 (t, 3H).

Part B. Preparation of 2-amino-4-[(3-nitro-4-chloro)phenyl]-5-carboethoxythiazole.

Following the procedure described in Example 31, Part B, ethyl 3-[(3-nitro-4-chloro)phenyl]-3-oxopropionate (1.6 g, 5.9 mmol) was converted into the title compound as a yellow solid. 1 H NMR (DMSO-d₆) δ : 8.32 (d, 1H); 7.98 (s, 2H); 7.95 (d, 1H); 7.75 (d, 1H); 4.08 (q, 2H); 1.13 (t, 3H).

Part C. Preparation of 2-amino-4-[(3-nitro-4-chloro)phenyl]-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

Following the procedure of Example 7, Part E, 2-amino-4-[(3-nitro-4-chloro)phenyl]-5-carboethoxythiazole (0.49 g, 1.5 mmol) was converted into 0.79 g (89%) of the title compound as a solid. MS (ESI) 586.0 (M+H)+.

Part D. Preparation of 2-amino-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

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Following the procedure described in Example 31, Part E, 2-amino-4-[(3-nitro-4-chloro)phenyl]-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (100 mg, 0.17 mmol) was converted into 35 mg (41%) of the title compound which was a white powder following HPLC purification. 1 H NMR (DMSO-d₆) δ : 9.68 (s, 1H), 7.98 (d, 1H, J=8 Hz), 7.60-7.43 (m, 5H), 7.30-7.10 (m, 8H), 6.75 (dd, 1H, J=8, 2 Hz). MS (ESI) 499.9 (M+H)+.

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Example 33

2-chloro-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt

Part A. Preparation of 2-chloro-4-[(3-nitro-4-chloro)phenyl]-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

Following the procedure described in Example 26, Part B, 2-amino-4-[(3-nitro-4-chloro)phenyl]-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (199 mg, 0.34 mmol) was converted into 150 mg (71%) of the title compound. MS (ESI) 626.9 (M+Na)+.

Part B. Preparation of 2-chloro-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt.

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Following the procedure described in Example 31, Part E, 2-chloro-4-[(3-nitro-4-chloro)phenyl]-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole (107 mg, 0.18 mmol) was converted into 10 mg (11%) of the title compound which was a white powder following HPLC purification. ¹H NMR (DMSO-d₆) δ: 10.66 (s, 1H), 7.99 (d, 1H, J=8.0 Hz), 7.60-7.50 (m, 4H), 7.37-7.20 (m, 7H), 6.81 (dd, 1H, J=8.0, 2 Hz). MS (ESI) 518.9 (M+H)+.

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Example 34

2-amino-4-[(3-aminomethyl)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole, trifluoroacetic acid salt

Part A. Preparation of 2-amino-4-(3-cyanophenyl)-5-25 carboethoxythiazole.

To a solution of ethyl 2-bromo-3-(3-cyanophenyl)-3-oxopropionate (2.0 g, 6.75 mmol) in 100 mL of absolute ethanol was added thiourea (0.51 g, 6.75 mmol). The resulting mixture was stirred at 80° C for 3h. The reaction was allowed to cool and the solvent was evaporated in vacuo. The residue was taken up in ethyl acetate, washed with saturated aq NaHCO3 and brine, dried (MgSO4) and concentrated in vacuo to yield a solid. Trituration with hexanes/ethyl ether left the title compound as an off-white solid (1.55 g, 65%). ¹H NMR (DMSO-d6) &: 8.03 (s, 1H); 7.93 (s, 2H); 7.91 (d, 1H); 7.82 (d, 1H); 7.58 (t, 1H); 4.05 (q, 2H); 1.10 (t, 3H).

Part B. Preparation of 2-amino-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole.

Following the procedure of Example 7, Part E, 2-amino-4-5 (3-cyanophenyl)-5-carboethoxythiazole (0.49 g, 1.8 mmol) was converted into 0.31 g (32%) of the title compound as a solid. MS (ESI) 532.3 (M+H)+.

Part C. Preparation of 2-amino-4-[(3-aminomethyl)phenyl]-5[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole,
trifluoroacetic acid salt.

To a solution of lithium aluminum hydride (0.63 mL of a 1.0 M solution in tetrahydrofuran, 0.63 mmol) in 10 mL of 15 tetrahydrofuran at 0°C was added concentrated H₂SO₄ (0.020 mL, 0.32 mmol). This solution was stirred for 30 min and then 2amino-4-(3-cyanophenyl)-5-[(2'-tert-butylaminosulfonyl-[1,1']biphen-4-yl)aminocarbonyl]thiazole (112 mg, 0.21 mmol) was added as a solution in tetrahydrofuran. The resulting mixture 20 was allowed to warm to room temperature and then was stirred for 16 h. The reaction was cooled to 0°C and quenched by dropwise addition of water. Dilute aqueous NaOH was added and the mixture was extracted with ethyl acetate. The organic layer was washed with brine, dried (MgSO₄) and concentrated. 25 The residue was taken up in 5 mL of trifluoroacetic acid and stirred at reflux for 30 min. This mixture was cooled and concentrated in vacuo. The residue was purified by prep HPLC to afford the title compound as a white powder. H NMR (DMSO d_6) δ : 9.77 (s, 1H), 8.13 (broad s, 3H), 7.97 (d, 1H, J=8 Hz), 7.71 (s, 1H), 7.60-7.40 (m, 8H), 7.29-7.20 (m, 6H), 3.9830

(broad q, 2H). MS (ESI) 480.0 (M+H) + ...

Table 1

Ex.	Ring M	D	R	_R 1a	R ^{4a}	A'	MS
1	isoxazole	C(=NH)NH2	Н	CH ₂ OH	SO2NH2	СН	492.1
2	isoxazole	C(=NH)NH2	н	Н	SO2NH2	СН	462.1
3	isoxazole	C(=NH)NH2	Н	Н	SO ₂ Me	СН	461.1
4	isoxazole	C(=NH)NH2	Н	CH ₂ OMe	SO2NH2	N	506.1
5	isoxazole	C(=NH)NH2	Н	Н	CF3	СН	451.1
6	isoxazole	C(=NH)NH2	H	CF3	SO2NH2	CH	530.1
7	thiazole	C(=NH)NH2	Н	NHAC	SO2NH2	СН	535.0
8	thiazole	C(=NH)NH2	н	NH2	SO2NH2	СН	493.0
9	thiazole	C(=NH)NH2	Н	СНЗ	SO2NH2	СН	492.3
10	oxazole	C(=NH)NH2	Н	H	SO2NH2	СН	462.1
11_	isoxazole	C(=NH)NH2	н	Н	SO2NHtBu	СН	518.2
12	isoxazole	C(=NH)NH2	н	CH2OMe	SO2NH2	CH	506.1
13	thiazole	$C (=NH) NH_2$	Н	Me	CF3	СН	481.3
14	thiazole	C(=NH)NH2	н	Ph	SO2NH2	СН	554.3
15	isoxazole	C(=NH)NH2	н	Н	SO2Me	CF	479.1
16	isoxazole	C(=NH)NH2	Н	Н	SCF3	СН	483.1
17	isoxazole	C(=NH)NH2	Н	NH2	SO2NH2	СН	477.1
18	thiazole	C(=NH)NH2	Н	NHPh	SO2NH2	СН	569.0
19	thiazole	$C (=NH) NH_2$	H	NHCH2Ph	SO2NH2	СН	583.0
20	thiazole	C(=NH)NH2	Н	NHMe	SO2NH2	СН	507.2
21	thiazole	CONH ₂	Н	NHMe	SO2NH2	CH	508.1
22	thiazole	C (=NH) NH2	Н	Me	SO2NH2	N	493.1
23	thiazole	CONH2	Н	Me	SO2NH2	N	494.1
24	thiazole	C(=NH)NH2	Н	3-pyridyl	SO2NH2	CH	554.3
25	thiazole	CONH ₂	Н	3-pyridyl	SO2NH2	СН	578.0 (M+Na) +

26	thiazole	C(=NH)NH2	Н	Cl	SO2NH2	СН	512.0
27	thiazole	CONH ₂	н	Cl	SO2NH2	СН	534.9
							(M+Na) +
28	thiazole	C(=NH)NH2	H	Cl	SO2NH2	N	513.0
29	thiazole	CONH ₂	H	Cl	SO2NH2	N	513.9
30	thiazole	C(=NH)NH2	Н	ОН	SO2NH2	N	495.0
31	thiazole	NH2	Н	Cl	SO2NH2	CH	484.9
32	thiazole	NH ₂	Cl	NH2	SO2NH2	CH	499.9
33	thiazole	NH2	Cl	Cl	SO2NH2	СН	518.9
34	thiazole	CH2NH2	Н	NH ₂	SO2NH2	СН	480.0

The following tables contain representative examples of the present invention. Each entry in each table is intended to be paired with each formulae at the start of the table. For example, example 1 in Table 2 is intended to be paired with each of formulae A-BB and example 1 in Table 3 is intended to be paired with each of fomulae a-dd.

The following groups are intended for group A in the 10 tables.

Table 2

Ex #	Rla	A	В
1	CH ₃	phenyl	2-(aminosulfonyl)phenyl
2	CH_3	phenyl	2-(methylaminosulfonyl)phenyl
3	CH_3	phenyl	1-pyrrolidinocarbonyl
4	CH ₃	phenyl	2-(methylsulfonyl)phenyl
5	CH_3	phenyl	4-morpholino
6	CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
7	CH ₃	phenyl	4-morpholinocarbonyl
8	CH ₃	phenyl	2-methyl-1-imidazolyl
9	CH ₃	phenyl	5-methyl-1-imidazolyl
10	CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
11	CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
12	CH_3	2-pyridyl	2-(methylaminosulfonyl)phenyl
13	CH_3	2-pyridyl	1-pyrrolidinocarbonyl
14	CH_3	2-pyridyl	2-(methylsulfonyl)phenyl
15	CH_3	2-pyridyl	4-morpholino
16	CH_3	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
17	CH_3	2-pyridyl	4-morpholinocarbonyl
18	CH ₃	2-pyridyl	2-methyl-1-imidazolyl
19	CH ₃	2-pyridyl	5-methyl-1-imidazolyl
20	CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
21	CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
22	CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
23	CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
24	CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
25	CH ₃	3-pyridyl	4-morpholino
26	CH_3	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
27	CH_3	3-pyridyl	4-morpholinocarbonyl
28	CH_3	3-pyridyl	2-methyl-1-imidazolyl
29	CH ₃	3-pyridyl	5-methyl-1-imidazolyl
30	CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
31	CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
32	CH_3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
33	CH_3	2-pyrimidyl	1-pyrrolidinocarbonyl
34	CH_3	2-pyrimidyl	2-(methylsulfonyl)phenyl
35	CH ₃	2-pyrimidyl	4-morpholino
36	CH_3	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
37	CH ₃	2-pyrimidyl	4-morpholinocarbonyl
38	CH_3	2-pyrimidyl	2-methyl-1-imidazolyl
39	CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
40	CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
41	CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
42	CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
43	CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
44	CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
45	CH ₃	5-pyrimidyl	4-morpholino
	-		_

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	46	CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	47	CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	48	CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	49	CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	50	CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	51	CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	52	CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	53	CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	54	CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	55	CH ₃	2-Cl-phenyl	4-morpholino
	56	CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	57	CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	58	CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	59	CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	60	CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
-	61	CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	62	CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	63	CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	64	CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	65	CH ₃	2-F-phenyl	4-morpholino
	66	CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	67	CH ₃	2-F-phenyl	4-morpholinocarbonyl
	68	CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	69	CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	70	CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
-	71	CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	72	CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	73	CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	74	CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	75	CH ₃	2,6-diF-phenyl	4-morpholino
	76	CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	7 7	CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	78	CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	79	CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	80	CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
_	81	CH ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
	82	CH ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	83	CH ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	84	CH ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	85	CH ₂ CH ₃	phenyl	4-morpholino
	86	CH ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	87	CH ₂ CH ₃	phenyl	4-morpholinocarbonyl
	88	CH ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
	89	CH ₂ CH ₃	phenyl	5-methyl-1-imidazolyl
	90	CH ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	91	CH ₂ CH ₃	2-pvridvl	2-(aminosulionyl)phenvl
	91 92	CH ₂ CH ₃ CH ₂ CH ₃	2-pyridyl 2-pyridyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl

w	O 98/282	82		. PCT/US97/23470
	94	CH ₂ CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	95	CH_2CH_3	2-pyridyl	4-morpholino
	96	CH ₂ CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	97	CH ₂ CH ₃	2-pyridyl	4-morpholinocarbonyl
	98	CH_2CH_3	2-pyridyl	2-methyl-1-imidazolyl
	99	CH ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
	100	CH ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	101	CH ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	102	CH ₂ CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	103	CH ₂ CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	104	CH ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	105	CH ₂ CH ₃	3-pyridyl	4-morpholino
	10 6	CH ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	107	CH ₂ CH ₃	3-pyridyl	4-morpholinocarbonyl
	108	CH ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
	109	CH_2CH_3	3-pyridyl	5-methyl-1-imidazolyl
	110	CH ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	111	CH ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	112	CH_2CH_3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	113	CH_2CH_3	2-pyrimidyl	1-pyrrolidinocarbonyl
	114	CH ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	115	CH_2CH_3	2-pyrimidyl	4-morpholino
	116	CH ₂ CH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	117	CH ₂ CH ₃	2-pyrimidyl	4-morpholinocarbonyl
	118	CH ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	119	CH ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
-	120	CH ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	121	CH ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	122	CH ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	123	CH ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	124	CH ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	125	CH ₂ CH ₃	5-pyrimidyl	4-morpholino
	126 127	CH ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	128	CH ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	129	CH ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	130	CH ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
_	131	CH ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	132	CH ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	133	CH ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	134	CH ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	134	CH ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	136	CH ₂ CH ₃	2-Cl-phenyl	4-morpholino
	137	CH ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	137	CH ₂ CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	139	CH ₂ CH ₃		2-methyl-1-imidazolyl
	140	CH ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
_		CH ₂ CH ₃	2-C1-phenyl	2-methylsulfonyl-1-imidazolyl
	141	CH ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl

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	142	CH ₂ CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	143	CH ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	144	CH ₂ CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	145	CH ₂ CH ₃	2-F-phenyl	4-morpholino
	146	CH ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	147	CH ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
	148	CH ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	149	CH ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	150	CH ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	151	CH ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	152	CH ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	153	CH ₂ CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	154	CH ₂ CH ₃	2,6-diF-phenyl	
	15 5	CH ₂ CH ₃	2,6-diF-phenyl	4-morpholino
	156	CH ₂ CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	157	CH ₂ CH ₃	2,6-dif-phenyl	4-morpholinocarbonyl
	158	CH ₂ CH ₃	2,6-dif-phenyl	2-methyl-1-imidazolyl
	159	CH ₂ CH ₃	2,6-dif-phenyl	5-methyl-1-imidazolyl
	160	CH ₂ CH ₃	2,6-dif-phenyl	2-methylsulfonyl-1-imidazolyl
•	161	CF ₃	phenyl	2-(aminosulfonyl)phenyl
	162	CF ₃	phenyl	2-(aminosuffonyl)phenyl 2-(methylaminosulfonyl)phenyl
	163	CF ₃	phenyl	1-pyrrolidinocarbonyl
	164	CF ₃	phenyl	2-(methylsulfonyl)phenyl
	165	CF ₃	phenyl	4-morpholino
	166	CF3 CF3		
	167	_	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	168	CF ₃	phenyl	4-morpholinocarbonyl
	169	CF ₃	phenyl	2-methyl-1-imidazolyl
	170	CF ₃	phenyl	5-methyl-1-imidazolyl
•	171	CF ₃	phenyl	2-methylsulfonyl-1-imidazolyl
		CF ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	172 172	CF ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	173	CF ₃	2-pyridyl	1-pyrrolidinocarbonyl
	174	CF ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	175	CF ₃	2-pyridyl	4-morpholino
	176	CF ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	177	CF ₃	2-pyridyl	4-morpholinocarbonyl
	178	CF ₃	2-pyridyl	2-methyl-1-imidazolyl
	179	CF ₃	2-pyridyl	5-methyl-1-imidazolyl
_	180	CF ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	181	CF ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	182	CF_3	3-pyridyl	2-(methylaminosulfonyl)phenyl
	183	\mathtt{CF}_3	3-pyridyl	1-pyrrolidinocarbonyl
	184	CF ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	185	CF_3	3-pyridyl	4-morpholino
	186	CF ₃ "	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	187	CF ₃	3-pyridyl	4-morpholinocarbonyl
	188	CF ₃	3-pyridyl	2-methyl-1-imidazolyl
	189	CF ₃	3-pyridyl	5-methyl-1-imidazolyl

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	190	CF ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	191	CF ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	192	CF ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	193	CF ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	194	CF ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	195	CF ₃	2-pyrimidyl	4-morpholino
	196	CF ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	197	CF ₃	2-pyrimidyl	4-morpholinocarbonyl
	198	CF_3	2-pyrimidyl	2-methyl-1-imidazolyl
	19 9	CF_3	2-pyrimidyl	5-methyl-1-imidazolyl
	200	CF ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	201	CF ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	202	CF ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	203	\mathtt{CF}_3	5-pyrimidyl	1-pyrrolidinocarbonyl
	204	CF ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	205	CF ₃	5-pyrimidyl	4-morpholino
	206	CF_3	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	207	CF_3	5-pyrimidyl	4-morpholinocarbonyl
	208	CF_3	5-pyrimidyl	2-methyl-1-imidazolyl
	209	\mathtt{CF}_3	5-pyrimidyl	5-methyl-1-imidazolyl
_	210	CF ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	211	\mathtt{CF}_3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	212	CF_3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	213	\mathtt{CF}_3	2-Cl-phenyl	1-pyrrolidinocarbonyl
	214	\mathtt{CF}_3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	215	CF_3	2-Cl-phenyl	4-morpholino
	216	\mathtt{CF}_3	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	217	CF ₃	2-Cl-phenyl	4-morpholinocarbonyl
	218	CF ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	219	CF ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
_	220	CF ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	221	CF ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	222	CF ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	223	CF ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	224	CF ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	225	CF ₃	2-F-phenyl	4-morpholino
	226	CF ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	227	CF ₃	2-F-phenyl	4-morpholinocarbonyl
	228	CF ₃	2-F-phenyl	2-methyl-1-imidazolyl
	229	CF ₃	2-F-phenyl	5-methyl-1-imidazolyl
_	230	CF ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	231	CF ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	232	CF ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	233	CF ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	234	CF ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	235	CF ₃	2,6-diF-phenyl	4-morpholino
	236	CF ₃		2-(1'-CF3-tetrazol-2-yl)phenyl
	237	CF ₃	2,6-diF-phenyl	4-morpholinocarbonyl

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	238	CF ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	239	CF_3	2,6-diF-phenyl	5-methyl-1-imidazolyl
	240	CF ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	241	SCH ₃	phenyl	2-(aminosulfonyl)phenyl
	242	SCH_3	phenyl	2-(methylaminosulfonyl)phenyl
	243	SCH_3	phenyl	1-pyrrolidinocarbonyl
	244	SCH_3	phenyl	2-(methylsulfonyl)phenyl
	245	SCH ₃	phenyl	4-morpholino
	246	SCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	247	SCH ₃	phenyl	4-morpholinocarbonyl
	248	SCH ₃	phenyl	2-methyl-1-imidazolyl
	249	SCH_3	phenyl	5-methyl-1-imidazolyl
	250	SCH_3	phenyl	2-methylsulfonyl-1-imidazolyl
	251	SCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	252	SCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	253	SCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	254	SCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	255	SCH ₃	2-pyridyl	4-morpholino
	256	SCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	257	SCH_3	2-pyridyl	4-morpholinocarbonyl
	258	SCH_3	2-pyridyl	2-methyl-1-imidazolyl
	259	SCH ₃	2-pyridyl	5-methyl-1-imidazolyl
_	260	SCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	261	SCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	262	SCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	26 3	SCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	264	SCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	265	SCH ₃	3-pyridyl	4-morpholino
	266	SCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	267	SCH_3	3-pyridyl	4-morpholinocarbonyl
	268	SCH_3	3-pyridyl	2-methyl-1-imidazolyl
	269	SCH ₃	3-pyridyl	5-methyl-1-imidazolyl
	270	SCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	271	SCH_3	2-pyrimidyl	2-(aminosulfonyl)phenyl
	272	SCH_3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	273	SCH_3	2-pyrimidyl	1-pyrrolidinocarbonyl
	274	SCH_3	2-pyrimidyl	2-(methylsulfonyl)phenyl
	275	SCH ₃	2-pyrimidyl	4-morpholino
	276	SCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	277	SCH ₃	2-pyrimidyl	4-morpholinocarbonyl
	278	SCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	279	SCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
_	280	SCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	281	SCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	282	SCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	283	SCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	284	SCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	285	SCH ₃	5-pyrimidyl	4-morpholino

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	286	SCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	287	SCH_3	5-pyrimidyl	4-morpholinocarbonyl
	288	SCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	289	SCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	290	SCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	291	SCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	292	SCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	293	SCH ₃	2-C1-phenyl	1-pyrrolidinocarbonyl
	294	SCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	295	SCH ₃	2-Cl-phenyl	4-morpholino
	296	SCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	297	SCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	298	SCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	299	SCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	300	SCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
•	301	SCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	302	SCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
	303	SCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	304	SCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	305	SCH ₃	2-F-phenyl	4-morpholino
	306	SCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	307	SCH ₃	2-F-phenyl	4-morpholinocarbonyl
	308	SCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	309	SCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	310	SCH ₃	2-F-phenyl	-
•	311	SCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	312	SCH ₃	2,6-dif-phenyl	2-(aminosulfonyl)phenyl
	313	SCH ₃	2,6-dif-phenyl	2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl
	314	SCH ₃	2,6-dif-phenyl	2-(methylsulfonyl)phenyl
	315	SCH ₃	2,6-dif-phenyl	4-morpholino
	316	SCH ₃	2,6-dif-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	317	SCH ₃	2,6-dif-phenyl	4-morpholinocarbonyl
	318	SCH ₃	2,6-dif-phenyl	2-methyl-1-imidazolyl
	319	SCH ₃	2,6-dif-phenyl	5-methyl-1-imidazolyl
	320	SCH ₃	2,6-dif-phenyl	2-methylsulfonyl-1-imidazolyl
-		SOCH ₃	phenyl	2-(aminosulfonyl)phenyl
		SOCH ₃	phenyl	2-(aminosuffonyl)phenyl 2-(methylaminosulfonyl)phenyl
		SOCH ₃	phenyl	1-pyrrolidinocarbonyl
		SOCH ₃	phenyl	2-(methylsulfonyl)phenyl
		SOCH ₃	phenyl	4-morpholino
		SOCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
		SOCH ₃	phenyl	4-morpholinocarbonyl
		SOCH ₃	phenyl	2-methyl-1-imidazolyl
		SOCH ₃	phenyl	
		SOCH ₃		5-methyl-1-imidazolyl
-			phenyl	2-methylsulfonyl-1-imidazolyl
		SOCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
		SOCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	223	SOCH ₃	2-pyridyl	1-pyrrolidinocarbonyl

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	334	SOCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	335	SOCH ₃	2-pyridyl	4-morpholino
	336	SOCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	337	SOCH ₃	2-pyridyl	4-morpholinocarbonyl
	338	SOCH ₃	2-pyridyl	2-methyl-1-imidazolyl
	339	SOCH ₃	2-pyridyl	5-methyl-1-imidazolyl
	340	SOCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
-	341	SOCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	342	SOCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	343	SOCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	344	SOCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	345	SOCH ₃	3-pyridyl	4-morpholino
	346	SOCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	347	SOCH ₃	3-pyridyl	4-morpholinocarbonyl
	348	SOCH ₃	3-pyridyl	2-methyl-1-imidazolyl
	349	SOCH ₃	3-pyridyl	5-methyl-1-imidazolyl
	350	SOCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
_	351	SOCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	352	SOCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	35 3	SOCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	354	SOCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	355	SOCH ₃	2-pyrimidyl	4-morpholino
	356	SOCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	357	SOCH ₃	2-pyrimidyl	4-morpholinocarbonyl
	358	SOCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	359	SOCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
	360	SOCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	361	SOCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	362	SOCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	363	SOCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	364	SOCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	365	SOCH ₃	5-pyrimidyl	4-morpholino
	366	SOCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	367	SOCH ₃	5-pyrimidyl	4-morpholinocarbonyl
	368	SOCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	369	SOCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
_	370	SOCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	371	SOCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	372	SOCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	37 3	SOCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	374	SOCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	375	SOCH ₃	2-Cl-phenyl	4-morpholino
	376	SOCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	377	SOCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	378	SOCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	379	SOCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
_	380	SOCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	381	SOCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl

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	382	SOCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	383	SOCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	384	SOCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	385	SOCH ₃	2-F-phenyl	4-morpholino
	386	SOCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	387	SOCH ₃	2-F-phenyl	4-morpholinocarbonyl
	388	SOCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	389	SOCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	390	SOCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
-	391	SOCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	39 2	SOCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	393	SOCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	394	SOCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	395	SOCH ₃	2,6-diF-phenyl	4-morpholino
	396	SOCH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	397	SOCH3	2,6-diF-phenyl	4-morpholinocarbonyl
	398	SOCH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	399	SOCH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	400	SOCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
-	401	SO ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
	402	SO ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	403	SO ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	404	SO ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	405	SO ₂ CH ₃	phenyl	4-morpholino
	406	SO ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	407	SO ₂ CH ₃	phenyl	4-morpholinocarbonyl
	408	SO ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
	409	SO ₂ CH ₃	phenyl	5-methyl-1-imidazolyl
	410	SO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
_	411	SO ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	412	SO ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	41 3	SO ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	414	SO ₂ CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	41 5	SO ₂ CH ₃	2-pyridyl	4-morpholino
	41 6	SO ₂ CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	417	SO ₂ CH ₃	2-pyridyl	4-morpholinocarbonyl
	41 8	SO ₂ CH ₃	2-pyridyl	2-methyl-1-imidazolyl
	419	SO ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
_	420	SO ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	421	SO ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	422	SO ₂ CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	423	SO ₂ CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
		SO ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	425	SO ₂ CH ₃	3-pyridyl	4-morpholino
	426	SO ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	427	SO ₂ CH ₃	3-pyridyl	4-morpholinocarbonyl
	428	SO ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
	429	SO ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
				-

430	SO ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
431	SO ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
432	SO ₂ CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
43 3	SO ₂ CH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
434	SO ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
435	SO ₂ CH ₃	2-pyrimidyl	4-morpholino
436	SO ₂ CH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
437	SO ₂ CH ₃	2-pyrimidyl	4-morpholinocarbonyl
438	SO ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
439	SO ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
440	SO ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
441	SO ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
442	SO ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
443	SO ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
444	SO ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
445	SO ₂ CH ₃	5-pyrimidyl	4-morpholino
446	SO ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
447	SO ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
448	SO ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
449	SO ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
450	SO ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
451	SO ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
45 2	SO ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
453	SO ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
454	SO ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
45 5	SO ₂ CH ₃	2-Cl-phenyl	4-morpholino
456	SO ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
457	SO ₂ CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
45 8	SO ₂ CH ₃	2-C1-phenyl	2-methyl-1-imidazolyl
459	SO ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
460	SO ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
461	SO ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
462	SO ₂ CH ₃	2-F-phenyl	2-(aminosuffonyl)phenyl 2-(methylaminosulfonyl)phenyl
463	SO ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
464	_	2-F-phenyl	2-(methylsulfonyl)phenyl
465	SO ₂ CH ₃ SO ₂ CH ₃	2-F-phenyl	4-morpholino
46 6	SO ₂ CH ₃	2-F-phenyl	-
467			2-(1'-CF3-tetrazol-2-yl)phenyl
467 468	SO ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
	SO ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
469 470	SO ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
470	SO ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
471	SO ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
47 2	SO ₂ CH ₃		2-(methylaminosulfonyl)phenyl
473		2,6-diF-phenyl	1-pyrrolidinocarbonyl
474	SO ₂ CH ₃		2-(methylsulfonyl)phenyl
475		2,6-diF-phenyl	4-morpholino
476	SO ₂ CH ₃	_	2-(1'-CF3-tetrazol-2-yl)phenyl
477	SO ₂ CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl

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478	SO ₂ CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
479	SO ₂ CH ₃	2,6-diF-phenyl	_ · · · · · · · · · · · · · · · · · · ·
480	SO_2CH_3	2,6-diF-phenyl	
481	CH ₂ NH-	phenyl	2-(aminosulfonyl)phenyl
	SO_2CH_3		
482	CH ₂ NH-	phenyl	2-(methylaminosulfonyl)phenyl
400	SO ₂ CH ₃		
483	CH ₂ NH-	phenyl	1-pyrrolidinocarbonyl
404	SO ₂ CH ₃		
484	CH ₂ NH-	phenyl	2-(methylsulfonyl)phenyl
405	SO ₂ CH ₃		
485	CH ₂ NH-	phenyl	4-morpholino
406	SO ₂ CH ₃		
48 6	CH ₂ NH-	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
407	SO ₂ CH ₃		
487	CH ₂ NH-	phenyl	4-morpholinocarbonyl
400	SO ₂ CH ₃		
48 8	CH ₂ NH-	phenyl	2-methyl-1-imidazolyl
400	SO ₂ CH ₃		
489	CH ₂ NH-	phenyl	5-methyl-1-imidazolyl
490	SO ₂ CH ₃	1 7	
430	CH ₂ NH-	phenyl	2-methylsulfonyl-1-imidazolyl
491	SO ₂ CH ₃		
491	CH ₂ NH-	2-pyridyl	2-(aminosulfonyl)phenyl
49 2	SO ₂ CH ₃	2	2 / 13 3
432	CH ₂ NH- SO ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
493	CH ₂ NH-	2-pyridyl	1
133	SO ₂ CH ₃	z-pyridyr	1-pyrrolidinocarbonyl
494	CH ₂ NH-	2-pyridyl	2 /mothers = 151
	SO ₂ CH ₃		2-(methylsulfonyl)phenyl
495	CH ₂ NH-	2-pyridyl	4-morpholino
	SO ₂ CH ₃	z pyrrayr	4-morphorino
496	CH ₂ NH-	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO ₂ CH ₃	~ pjiidji	2 (1 cr3 cecrazor-z-yr) phenyr
497	CH ₂ NH-	2-pyridyl	4-morpholinocarbonyl
	SO ₂ CH ₃		i merphorinecarponyi
49 8	CH ₂ NH-	2-pyridyl	2-methyl-1-imidazolyl
	SO ₂ CH ₃	- F2	2 meeny 1 1 midd20iyi
499	CH ₂ NH-	2-pyridyl	5-methyl-1-imidazolyl
	SO ₂ CH ₃		- moon, i i imiaazoiyi
500	CH ₂ NH-	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃		in the confidence of the confi
501	CH ₂ NH-	3-pyridyl	2-(aminosulfonyl)phenyl
	SO ₂ CH ₃		
502	CH ₂ NH-	3-pyridyl	2-(methylaminosulfonyl)phenyl
	SO ₂ CH ₃	•	2
	_		

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503	CH ₂ NH-	3-pyridyl	1-pyrrolidinocarbonyl
	SO ₂ CH ₃		
504	CH ₂ NH- SO ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
505	CH ₂ NH-	3-pyridyl	4-morpholino
	SO_2CH_3		
506	CH ₂ NH-	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
507	SO ₂ CH ₃	2	4 manual - 2 du 2
507	CH ₂ NH-	3-pyridyl	4-morpholinocarbonyl
EOO	SO ₂ CH ₃	2	0
508	CH ₂ NH-	3-pyridyl	2-methyl-1-imidazolyl
F00	SO ₂ CH ₃	2	5
509	CH ₂ NH-	3-pyridyl	5-methyl-1-imidazolyl
-10	SO ₂ CH ₃		
510	CH ₂ NH-	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃		
511	CH ₂ NH-	2-pyrimidyl	2-(aminosulfonyl)phenyl
= 4.0	SO ₂ CH ₃		
512	CH ₂ NH-	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
=40	SO ₂ CH ₃		
513	CH ₂ NH-	2-pyrimidyl	1-pyrrolidinocarbonyl
	SO ₂ CH ₃		
514	CH ₂ NH-	2-pyrimidyl	2-(methylsulfonyl)phenyl
	SO ₂ CH ₃		
51 5	CH ₂ NH-	2-pyrimidyl	4-morpholino
	SO ₂ CH ₃		
516	CH ₂ NH-	2-pyrimidyl	2-(1'-CF3-tetrazol-2-y1)phenyl
F 4 D	SO ₂ CH ₃		
517	CH ₂ NH-	2-pyrimidyl	4-morpholinocarbonyl
518	SO ₂ CH ₃		
218	CH ₂ NH-	2-pyrimidyl	2-methyl-1-imidazolyl
E10	SO ₂ CH ₃	0 - 1.1.3.3	
519	CH ₂ NH-	2-pyrimidyl	5-methyl-1-imidazolyl
E20	SO ₂ CH ₃	0	
520	CH ₂ NH-	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
E01	SO ₂ CH ₃	F	25 22 22
521	CH ₂ NH-	5-pyrimidyl	2-(aminosulfonyl)phenyl
E00	SO ₂ CH ₃		0 (13 3 1 3 5 3 3 3
522	CH ₂ NH-	5-pyrimidyl	<pre>2-(methylaminosulfonyl)phenyl</pre>
500	SO ₂ CH ₃		
52 3	CH ₂ NH-	5-pyrimidyl	1-pyrrolidinocarbonyl
50	SO ₂ CH ₃		
524	CH ₂ NH-	5-pyrimidyl	2-(methylsulfonyl)phenyl
	SO ₂ CH ₃		
525	_	5-pyrimidyl	4-morpholino
	SO ₂ CH ₃		
526	CH ₂ NH-	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO ₂ CH ₃		

S27	WO 98/28	282		. PCT/US97/23470
SO2CH3			5-pyrimidyl	4-morpholinocarbonyl
SO2CH3		SO_2CH_3		-
SO2CH3	528	CH ₂ NH-	5-pyrimidyl	2-methyl-1-imidazolyl
SO2CH3		SO_2CH_3		-
SO ₂ CH ₃	529	CH ₂ NH-	5-pyrimidyĺ	5-methyl-1-imidazolyl
SO2CH3		SO_2CH_3		-
SO2CH3	530	CH2NH-	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
SO2CH3		SO ₂ CH ₃		
SO2CH3	531	CH ₂ NH-	2-Cl-phenyl	2-(aminosulfonyl)phenyl
SO2CH3		SO_2CH_3		
SO2CH3	532	CH ₂ NH-	2-Cl-phenyl	2-(methylaminosulfonvl)phenvl
SO ₂ CH ₃		SO ₂ CH ₃		1 - / 200 010 / 2
SO2CH3	533	CH ₂ NH-	2-Cl-phenyl	1-pyrrolidinocarbonvl
SO2CH3		SO ₂ CH ₃		
SO ₂ CH ₃ 2-Cl-phenyl	534	CH ₂ NH-	2-Cl-phenyl	2-(methylsulfonvl)phenvl
SO2CH3 536 CH2NH- 2-Cl-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl SO2CH3 537 CH2NH- 2-Cl-phenyl 4-morpholinocarbonyl SO2CH3 538 CH2NH- 2-Cl-phenyl 2-methyl-1-imidazolyl SO2CH3 539 CH2NH- 2-Cl-phenyl 5-methyl-1-imidazolyl SO2CH3 540 CH2NH- 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl SO2CH3 541 CH2NH- 2-F-phenyl 2-(aminosulfonyl)phenyl SO2CH3 542 CH2NH- 2-F-phenyl 2-(methylaminosulfonyl)phenyl SO2CH3 543 CH2NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO2CH3 544 CH2NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO2CH3 545 CH2NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO2CH3 546 CH2NH- 2-F-phenyl 4-morpholino SO2CH3 547 CH2NH- 2-F-phenyl 4-morpholino SO2CH3 548 CH2NH- 2-F-phenyl 4-morpholinocarbonyl SO2CH3 549 CH2NH- 2-F-phenyl 4-morpholinocarbonyl SO2CH3 549 CH2NH- 2-F-phenyl 5-methyl-1-imidazolyl SO2CH3 549 CH2NH- 2-F-phenyl 5-methyl-1-imidazolyl SO2CH3 550 CH2NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO ₂ CH ₃	•	
SO2CH3	53 5	CH ₂ NH-	2-Cl-phenyl	4-morpholino
SO2CH3		SO_2CH_3		•
SO2CH3	536	CH ₂ NH-	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-vl)phenvl
SO2CH3 538 CH2NH- 2-Cl-phenyl 2-methyl-1-imidazolyl SO2CH3 539 CH2NH- 2-Cl-phenyl 5-methyl-1-imidazolyl SO2CH3 540 CH2NH- 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl SO2CH3 541 CH2NH- 2-F-phenyl 2-(aminosulfonyl)phenyl SO2CH3 542 CH2NH- 2-F-phenyl 2-(methylaminosulfonyl)phenyl SO2CH3 543 CH2NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO2CH3 544 CH2NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO2CH3 545 CH2NH- 2-F-phenyl 4-morpholino SO2CH3 546 CH2NH- 2-F-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl SO2CH3 547 CH2NH- 2-F-phenyl 4-morpholinocarbonyl SO2CH3 548 CH2NH- 2-F-phenyl 2-methyl-1-imidazolyl SO2CH3 549 CH2NH- 2-F-phenyl 5-methyl-1-imidazolyl SO2CH3 540 CH2NH- 2-F-phenyl 5-methyl-1-imidazolyl SO2CH3 541 CH2NH- 2-F-phenyl 5-methyl-1-imidazolyl SO2CH3 542 CH2NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl SO2CH3 543 CH2NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO_2CH_3		J = / P-1-1-1-2 Z
SO2CH3	537	CH ₂ NH-	2-Cl-phenyl	4-morpholinocarbonyl
SO ₂ CH ₃ 539 CH ₂ NH- 2-Cl-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 540 CH ₂ NH- 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl SO ₂ CH ₃ 541 CH ₂ NH- 2-F-phenyl 2-(aminosulfonyl)phenyl SO ₂ CH ₃ 542 CH ₂ NH- 2-F-phenyl 2-(methylaminosulfonyl)phenyl SO ₂ CH ₃ 543 CH ₂ NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO ₂ CH ₃		-
SO ₂ CH ₃	538	CH ₂ NH-	2-Cl-phenyl	2-methyl-1-imidazolyl
SO ₂ CH ₃ 540 CH ₂ NH- 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl SO ₂ CH ₃ 541 CH ₂ NH- 2-F-phenyl 2-(aminosulfonyl)phenyl SO ₂ CH ₃ 542 CH ₂ NH- 2-F-phenyl 2-(methylaminosulfonyl)phenyl SO ₂ CH ₃ 543 CH ₂ NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO ₂ CH ₃		
SO ₂ CH ₃	539	CH ₂ NH-	2-Cl-phenyl	5-methyl-1-imidazolyl
SO2CH3 541 CH2NH- 2-F-phenyl 2-(aminosulfonyl)phenyl SO2CH3 542 CH2NH- 2-F-phenyl 2-(methylaminosulfonyl)phenyl SO2CH3 543 CH2NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO2CH3 544 CH2NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO2CH3 545 CH2NH- 2-F-phenyl 4-morpholino SO2CH3 546 CH2NH- 2-F-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl SO2CH3 547 CH2NH- 2-F-phenyl 4-morpholinocarbonyl SO2CH3 548 CH2NH- 2-F-phenyl 2-methyl-1-imidazolyl SO2CH3 549 CH2NH- 2-F-phenyl 5-methyl-1-imidazolyl SO2CH3 550 CH2NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO_2CH_3		•
SO ₂ CH ₃ CH ₂ NH- 2-F-phenyl 2-(aminosulfonyl)phenyl SO ₂ CH ₃ So ₂	540	CH ₂ NH-	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
SO ₂ CH ₃ 542 CH ₂ NH- 2-F-phenyl 2-(methylaminosulfonyl)phenyl SO ₂ CH ₃ 543 CH ₂ NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO ₂ CH ₃		
SO ₂ CH ₃ 542 CH ₂ NH- 2-F-phenyl 2-(methylaminosulfonyl)phenyl SO ₂ CH ₃ 543 CH ₂ NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl	541	CH ₂ NH-	2-F-phenyl	2-(aminosulfonyl)phenyl
SO ₂ CH ₃ 543 CH ₂ NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO ₂ CH ₃		_
SO ₂ CH ₃ 543 CH ₂ NH- 2-F-phenyl 1-pyrrolidinocarbonyl SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl	542	CH ₂ NH-	2-F-phenyl	2-(methylaminosulfonyl)phenyl
SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO_2CH_3		- · · -
SO ₂ CH ₃ 544 CH ₂ NH- 2-F-phenyl 2-(methylsulfonyl)phenyl SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl	54 3	CH ₂ NH-	2-F-phenyl	1-pyrrolidinocarbonyl
SO ₂ CH ₃ 545 CH ₂ NH- 2-F-phenyl 4-morpholino SO ₂ CH ₃ 546 CH ₂ NH- 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO_2CH_3		
SO_2CH_3	544	CH ₂ NH-	2-F-phenyl	2-(methylsulfonyl)phenyl
SO_2CH_3		SO_2CH_3		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	54 5	CH ₂ NH-	2-F-phenyl	4-morpholino
SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO_2CH_3		•
SO ₂ CH ₃ 547 CH ₂ NH- 2-F-phenyl 4-morpholinocarbonyl SO ₂ CH ₃ 548 CH ₂ NH- 2-F-phenyl 2-methyl-1-imidazolyl SO ₂ CH ₃ 549 CH ₂ NH- 2-F-phenyl 5-methyl-1-imidazolyl SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl	546	CH ₂ NH-	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
SO_2CH_3 548 CH_2NH - 2-F-phenyl 2-methyl-1-imidazolyl SO_2CH_3 549 CH_2NH - 2-F-phenyl 5-methyl-1-imidazolyl SO_2CH_3 550 CH_2NH - 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO_2CH_3		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	547	CH ₂ NH-	2-F-phenyl	4-morpholinocarbonyl
SO_2CH_3				-
SO_2CH_3 549 $CH_2NH SO_2CH_3$ SO_2CH_3 550 $CH_2NH 2-F-phenyl$ $2-methylsulfonyl-1-imidazolyl$	54 8	_	2-F-phenyl	2-methyl-1-imidazolyl
SO_2CH_3 SO_2CH_3 550 CH_2NH - 2-F-phenyl 2-methylsulfonyl-1-imidazolyl		SO_2CH_3		-
SO ₂ CH ₃ 550 CH ₂ NH- 2-F-phenyl 2-methylsulfonyl-1-imidazolyl	549	CH ₂ NH-	2-F-phenyl	5-methyl-1-imidazolyl
z z z z z z z z z z z z z z z z z z z		SO_2CH_3		•
	5 50	CH ₂ NH-	2-F-phenyl	2-methylsulfonyl-1-imidazolvl
		SO ₂ CH ₃		

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551	CH ₂ NH-	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	SO ₂ CH ₃		2 / [] _
5 52	CH ₂ NH-	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	SO ₂ CH ₃	_,	(osily raminosarrony r) pheny r
55 3	CH ₂ NH-	2,6-diF-phenyl	. 1 m. m. 1 i din
3 33	_	z, o-dir-phenyi	1-pyrrolidinocarbonyl
 4	SO ₂ CH ₃	0.6.3:- 1	
554	CH ₂ NH-	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	SO_2CH_3		
55 5	CH ₂ NH-	2,6-diF-phenyl	4-morpholino
	SO ₂ CH ₃		
556	CH ₂ NH-	2,6-diF-phenvl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO ₂ CH ₃		the say seemed 2 y2/pichy1
557	CH ₂ NH-	2,6-diF-phenyl	4-morpholinocarbonyl
33,	SO ₂ CH ₃	z, o dir phenyi	4-morphorinocarbony1
5 58		0.6.455.1	
226	CH ₂ NH-	2,6-diF-phenyl	2-methyl-1-imidazolyl
_	SO_2CH_3		
559	CH ₂ NH-	2,6-diF-phenyl	5-methyl-1-imidazolyl
	SO ₂ CH ₃		-
560	CH ₂ NH-	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃	-	1
561	Cl	phenyl	2-(aminosulfonyl)phenyl
562	cl	phenyl	2-(methylaminosulfonyl)phenyl
563	Cl	phenyl	1-pyrrolidinocarbonyl
564	Cl	phenyl	2-(methylsulfonyl)phenyl
565	Cl	phenyl	4-morpholino
56 6	Cl	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
567	Cl	phenyl	4-morpholinocarbonyl
568	Cl	phenyl	2-methyl-1-imidazolyl
569	Cl	phenyl	5-methyl-1-imidazolyl
570	Cl	phenyl	2-methylsulfonyl-1-imidazolyl
571	Cl	2-pyridyl	2-(aminosulfonyl)phenyl
572	Cl	2-pyridyl	2-(methylaminosulfonyl)phenyl
573	Cl	2-pyridyl	1-pyrrolidinocarbonyl
574	Cl	2-pyridyl	2-(methylsulfonyl)phenyl
575	Cl	2-pyridyl	4-morpholino
576	Cl	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
577	Cl	2-pyridyl	4-morpholinocarbonyl
578	Cl	2-pyridyl	2-methyl-1-imidazolyl
579	Cl	2-pyridyl	5-methyl-1-imidazolyl
580	Cl	2-pyridyl	2-methylsulfonyl-1-imidazolyl
581	Cl	3-pyridyl	2-(aminosulfonyl)phenyl
582	Cl	3-pyridyl	2-(methylaminosulfonyl)phenyl
583	C1	3-pyridyl	1-pyrrolidinocarbonyl
584	Cl	3-pyridyl	2-(methylsulfonyl)phenyl
585	Cl	3-pyridyl	4-morpholino
586	Cl	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
587	Cl	3-pyridyl	4-morpholinocarbonyl
588	Cl	3-pyridyl	2-methyl-1-imidazolyl
589	Cl	3-pyridyl	5-methyl-1-imidazolyl
_590	Cl	3-pyridyl	2-methylsulfonyl-1-imidazolyl
591	Cl	2-pyrimidyl	2-(aminosulfonyl)phenyl
592	Cl	2-pyrimidyl	2-(methylaminosulfonyl)phenyl

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593	Cl	2-pyrimidyl	1-pyrrolidinocarbonyl
594	Cl	2-pyrimidyl	2-(methylsulfonyl)phenyl
595	Cl	2-pyrimidyl	4-morpholino
596	Cl	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
597	Cl	2-pyrimidyl	4-morpholinocarbonyl
598	Cl	2-pyrimidyl	2-methyl-1-imidazolyl
599	Cl	2-pyrimidyl	5-methyl-1-imidazolyl
600	Cl	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
601	Cl	5-pyrimidyl	2-(aminosulfonyl)phenyl
602	Cl	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
603	Cl	5-pyrimidyl	1-pyrrolidinocarbonyl
604	Cl	5-pyrimidyl	2-(methylsulfonyl)phenyl
605	Cl	5-pyrimidyl	4-morpholino
606	Cl	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
607	C1	5-pyrimidyl	4-morpholinocarbonyl
608	Cl	5-pyrimidyl	2-methyl-1-imidazolyl
609	Cl	5-pyrimidyl	
610	Cl	5-pyrimidyl	5-methyl-1-imidazolyl
611	Cl		2-methylsulfonyl-1-imidazolyl
612	Cl	2-Cl-phenyl	2-(aminosulfonyl)phenyl
613	Cl	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
614		2-Cl-phenyl	1-pyrrolidinocarbonyl
615	Cl	2-Cl-phenyl	2-(methylsulfonyl)phenyl
616	Cl	2-Cl-phenyl	4-morpholino
	Cl	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
617	Cl	2-Cl-phenyl	4-morpholinocarbonyl
618	Cl	2-Cl-phenyl	2-methyl-1-imidazolyl
619	Cl	2-Cl-phenyl	5-methyl-1-imidazolyl
620	C1	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
621	Cl	2-F-phenyl	2-(aminosulfonyl)phenyl
622	Cl	2-F-phenyl	2-(methylaminosulfonyl)phenyl
623	Cl	2-F-phenyl	1-pyrrolidinocarbonyl
624	Cl	2-F-phenyl	2-(methylsulfonyl)phenyl
625	Cl	2-F-phenyl	4-morpholino
626	Cl	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
627	Cl	2-F-phenyl	4-morpholinocarbonyl
62 8	Cl	2-F-phenyl	2-methyl-1-imidazolyl
629	Cl	2-F-phenyl	5-methyl-1-imidazolyl
630	C1	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
631	Cl	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
632	Cl	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
633	Cl	2,6-diF-phenyl	1-pyrrolidinocarbonyl
634	Cl	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
635	Cl	2,6-diF-phenyl	4-morpholino
636	Cl	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
637	Cl	2,6-diF-phenyl	4-morpholinocarbonyl
638	Cl	2,6-dif-phenyl	2-methyl-1-imidazolyl
639	Cl	2,6-diF-phenyl	5-methyl-1-imidazolyl
640	Cl	2,6-dif-phenyl	2-methylsulfonyl-1-imidazolyl
641	F		2 /aminogulformilyalana
642	F	phenyl phenyl	2-(aminosulfonyl)phenyl
643	F		2-(methylaminosulfonyl)phenyl
644	F	phenyl	1-pyrrolidinocarbonyl
645	r F	phenyl	2-(methylsulfonyl)phenyl
646	F	phenyl	4-morpholino
		phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
647	F	phenyl	4-morpholinocarbonyl

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648	F	phenyl	2-methyl-1-imidazolyl
649	F	phenyl	5-methyl-1-imidazolyl
<u>650</u>	F	phenyl	2-methylsulfonyl-1-imidazolyl
651	F	2-pyridyl	2-(aminosulfonyl)phenyl
652	F	2-pyridyl -	2-(methylaminosulfonyl)phenyl
653	F	2-pyridyl	1-pyrrolidinocarbonyl
654	F	2-pyridyl	2-(methylsulfonyl)phenyl
655	F	2-pyridyl	4-morpholino
656	F	2-pyri dy l	2-(1'-CF3-tetrazol-2-yl)phenyl
657	F	2-pyridyl	4-morpholinocarbonyl
658	F	2-pyri dy l	2-methyl-1-imidazolyl
659	F	2-pyridyl	5-methyl-1-imidazolyl
660	F	2-pyridyl	2-methylsulfonyl-1-imidazolyl
661	F	3-pyridyl	2-(aminosulfonyl)phenyl
662	F	3-pyridyl	2-(methylaminosulfonyl)phenyl
663	\mathbf{F}	3-pyridyl	1-pyrrolidinocarbonyl
664	F	3-pyridyl	2-(methylsulfonyl)phenyl
665	F	3-pyridyl	4-morpholino
666	F	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
667	F	3-pyridyl	4-morpholinocarbonyl
668	F	3-pyridyl	2-methyl-1-imidazolyl
669	F	3-pyridyl	5-methyl-1-imidazolyl
670	F	3-pyridyl	2-methylsulfonyl-1-imidazolyl
671	F	2-pyrimidyl	2-(aminosulfonyl)phenyl
672	F	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
673	F	2-pyrimidyl	1-pyrrolidinocarbonyl
674	F	2-pyrimidyl	2-(methylsulfonyl)phenyl
675	F	2-pyrimidyl	4-morpholino
676	F	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
677	F	2-pyrimidyl	4-morpholinocarbonyl
678	F	2-pyrimidyl	2-methyl-1-imidazolyl
679	F	2-pyrimidyl	5-methyl-1-imidazolyl
680	F	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
681	F	5-pyrimidyl	2-(aminosulfonyl)phenyl
682	F	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
683	F	5-pyrimidyl	1-pyrrolidinocarbonyl
684	F	5-pyrimidyl	2-(methylsulfonyl)phenyl
685	F	5-pyrimidyl	4-morpholino
686	F	5-pyrimidyl	2-(1'-CF3-tetrazol-2-y1)phenyl
687	F	5-pyrimidyl	4-morpholinocarbonyl
688	F	5-pyrimidyl	2-methyl-1-imidazolyl
689	F	5-pyrimidyl	5-methyl-1-imidazolyl
690	<u> </u>	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
691	F	2-Cl-phenyl	2-(aminosulfonyl)phenyl
692 693	F	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
693 694	F	2-Cl-phenyl	1-pyrrolidinocarbonyl
695	F	2-Cl-phenyl	2-(methylsulfonyl)phenyl
696	F	2-Cl-phenyl	4-morpholino
697	F	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
697 698	F	2-Cl-phenyl	4-morpholinocarbonyl
699	F	2-Cl-phenyl	2-methyl-1-imidazolyl
700	F	2-Cl-phenyl	5-methyl-1-imidazolyl
701	<u>F</u>	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
701	F	2-F-phenyl	2-(aminosulfonyl)phenyl
702	F	2-F-phenyl	2-(methylaminosulfonyl)phenyl

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703	F	2-F-phenyl	1-pyrrolidinocarbonyl
704	F	2-F-phenyl	2-(methylsulfonyl)phenyl
705	F	2-F-phenyl	4-morpholino
706	F	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
707	F	2-F-phenyl	4 morpholinesselessel
708	F	2-F-phenyl	4-morpholinocarbonyl
709	F	2-F-phenyl	2-methyl-1-imidazolyl
710	F	2-F-phenyl	5-methyl-1-imidazolyl
711	F	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
712	F	2,6-dif-phenyl	
713	F	2,6-dif-phenyl	
714	F.	2,6-dif-phenyl	
715	F	2,6-dif-phenyl	2-(methylsulfonyl)phenyl 4-morpholino
716	F	2,6-dif-phenyl	
717	F	2,6-dif-phenyl	
718	F	2,6-dif-phenyl	4-morpholinocarbonyl
719	F	2,6-diF-phenyl	2-methyl-1-imidazolyl
720	F	2,6-dif-phenyl	5-methyl-1-imidazolyl
721	CO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl
722	CO ₂ CH ₃	phenyl	
723	CO ₂ CH ₃		2-(methylaminosulfonyl)phenyl
		phenyl	1-pyrrolidinocarbonyl
724	CO ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
725	CO ₂ CH ₃	phenyl	4-morpholino
726	CO_2CH_3	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
727	CO_2CH_3	phenyl	4-morpholinocarbonyl
728	CO_2CH_3	phenyl	2-methyl-1-imidazolyl
729	CO_2CH_3	phenyl	5-methyl-1-imidazolyl
730	CO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
731	CO ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
732	CO ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
73 3	CO ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
734	CO ₂ CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
73 5	CO ₂ CH ₃	2-pyridyl	4-morpholino
736	CO_2CH_3	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
737	CO ₂ CH ₃	2-pyridyl	
738	CO ₂ CH ₃	2-pyridyl	4-morpholinocarbonyl
739		_	2-methyl-1-imidazolyl
	CO ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
740	CO ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
741	CO ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
742	CO_2CH_3	3-pyridyl	2-(methylaminosulfonyl)phenyl
74 3	CO_2CH_3	3-pyridyl ´	1-pyrrolidinocarbonyl
744	CO_2CH_3	3-pyridyl	2-(methylsulfonyl)phenyl
745	CO ₂ CH ₃	3-pyridyl	4-morpholino
746	CO ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
747	CO ₂ CH ₃	3-pyridyl	4-morpholinocarbonyl
748	CO ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
749	CO ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
750	CO ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
751	CO ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
752	CO ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
	222113	~ Mirrurali	2 (meeny remainosurrony) pnenyl

Topyrical display	WO 98/28	3282		. PCT/US97/23470
Total Co2CH3			2-pyrimidyl	1-pyrrolidinocarbonyl
755				
756				
757				-
758				
Top				
760 CO2CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 761 CO2CH3 5-pyrimidyl 2-(aminosulfonyl)phenyl 762 CO2CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 763 CO2CH3 5-pyrimidyl 1-pyrrolidinocarbonyl 764 CO2CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 765 CO2CH3 5-pyrimidyl 4-morpholino 766 CO2CH3 5-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 767 CO2CH3 5-pyrimidyl 2-methyl-1-imidazolyl 768 CO2CH3 5-pyrimidyl 2-methyl-1-imidazolyl 769 CO2CH3 5-pyrimidyl 2-methyl-1-imidazolyl 770 CO2CH3 5-pyrimidyl 2-methyl-1-imidazolyl 771 CO2CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 772 CO2CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 773 CO2CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 774 CO2CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 7				· · · · · · · · · · · · · · · · · · ·
Total Co2CH3				_
762 CO ₂ CH ₃ 5-pyrimidyl 763 CO ₂ CH ₃ 5-pyrimidyl 764 CO ₂ CH ₃ 5-pyrimidyl 765 CO ₂ CH ₃ 5-pyrimidyl 766 CO ₂ CH ₃ 5-pyrimidyl 766 CO ₂ CH ₃ 5-pyrimidyl 767 CO ₂ CH ₃ 5-pyrimidyl 768 CO ₂ CH ₃ 5-pyrimidyl 769 CO ₂ CH ₃ 5-pyrimidyl 769 CO ₂ CH ₃ 5-pyrimidyl 770 CO ₂ CH ₃ 5-pyrimidyl 770 CO ₂ CH ₃ 5-pyrimidyl 771 CO ₂ CH ₃ 5-pyrimidyl 771 CO ₂ CH ₃ 5-pyrimidyl 772 CO ₂ CH ₃ 5-pyrimidyl 772 CO ₂ CH ₃ 2-Cl-phenyl 773 CO ₂ CH ₃ 2-Cl-phenyl 774 CO ₂ CH ₃ 2-Cl-phenyl 775 CO ₂ CH ₃ 2-Cl-phenyl 775 CO ₂ CH ₃ 2-Cl-phenyl 776 CO ₂ CH ₃ 2-Cl-phenyl 777 CO ₂ CH ₃ 2-Cl-phenyl 778 CO ₂ CH ₃ 2-Cl-phenyl 779 CO ₂ CH ₃ 2-Cl-phenyl 780 CO ₂ CH ₃ 2-F-phenyl 781 CO ₂ CH ₃ 2-F-phenyl 782 CO ₂ CH ₃ 2-F-phenyl 783 CO ₂ CH ₃ 2-F-phenyl 784 CO ₂ CH ₃ 2-F-phenyl 785 CO ₂ CH ₃ 2-F-phenyl 786 CO ₂ CH ₃ 2-F-phenyl 787 CO ₂ CH ₃ 2-F-phenyl 788 CO ₂ CH ₃ 2-F-phenyl 799 CO ₂				
763				
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777 CO ₂ CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 778 CO ₂ CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 779 CO ₂ CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 780 CO ₂ CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl 781 CO ₂ CH ₃ 2-F-phenyl 2-(aminosulfonyl)phenyl 782 CO ₂ CH ₃ 2-F-phenyl 2-(methylaminosulfonyl)phenyl 783 CO ₂ CH ₃ 2-F-phenyl 1-pyrrolidinocarbonyl 784 CO ₂ CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl 785 CO ₂ CH ₃ 2-F-phenyl 4-morpholino 786 CO ₂ CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 787 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 788 CO ₂ CH ₃ 2-F-phenyl 3-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 790 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 3-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl		_		
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779 CO ₂ CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 780 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 781 CO ₂ CH ₃ 2-F-phenyl 2-(aminosulfonyl)phenyl 782 CO ₂ CH ₃ 2-F-phenyl 2-(methylaminosulfonyl)phenyl 783 CO ₂ CH ₃ 2-F-phenyl 1-pyrrolidinocarbonyl 784 CO ₂ CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl 785 CO ₂ CH ₃ 2-F-phenyl 4-morpholino 786 CO ₂ CH ₃ 2-F-phenyl 4-morpholinocarbonyl 787 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 788 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 797 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				· -
780 CO2CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl 781 CO2CH3 2-F-phenyl 2-(aminosulfonyl)phenyl 782 CO2CH3 2-F-phenyl 2-(methylaminosulfonyl)phenyl 783 CO2CH3 2-F-phenyl 1-pyrrolidinocarbonyl 784 CO2CH3 2-F-phenyl 2-(methylsulfonyl)phenyl 785 CO2CH3 2-F-phenyl 4-morpholino 786 CO2CH3 2-F-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 787 CO2CH3 2-F-phenyl 2-methyl-1-imidazolyl 788 CO2CH3 2-F-phenyl 2-methyl-1-imidazolyl 789 CO2CH3 2-F-phenyl 2-methylsulfonyl)phenyl 790 CO2CH3 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 791 CO2CH3 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 792 CO2CH3 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 793 CO2CH3 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 794 CO2CH3 2,6-diF-phenyl 2-(methylsulfonyl)phenyl				_
781 CO ₂ CH ₃ 2-F-phenyl 2-(aminosulfonyl)phenyl 782 CO ₂ CH ₃ 2-F-phenyl 2-(methylaminosulfonyl)phenyl 783 CO ₂ CH ₃ 2-F-phenyl 1-pyrrolidinocarbonyl 784 CO ₂ CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl 785 CO ₂ CH ₃ 2-F-phenyl 4-morpholino 786 CO ₂ CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 787 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 790 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 796 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				• • •
782 CO ₂ CH ₃ 2-F-phenyl 2-(methylaminosulfonyl)phenyl 783 CO ₂ CH ₃ 2-F-phenyl 1-pyrrolidinocarbonyl 784 CO ₂ CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl 785 CO ₂ CH ₃ 2-F-phenyl 4-morpholino 786 CO ₂ CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 787 CO ₂ CH ₃ 2-F-phenyl 4-morpholinocarbonyl 788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
783 CO ₂ CH ₃ 2-F-phenyl 1-pyrrolidinocarbonyl 784 CO ₂ CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl 785 CO ₂ CH ₃ 2-F-phenyl 4-morpholino 786 CO ₂ CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 787 CO ₂ CH ₃ 2-F-phenyl 4-morpholinocarbonyl 788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				_ _
784 CO ₂ CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl 785 CO ₂ CH ₃ 2-F-phenyl 4-morpholino 786 CO ₂ CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 787 CO ₂ CH ₃ 2-F-phenyl 4-morpholinocarbonyl 788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
785 CO ₂ CH ₃ 2-F-phenyl 4-morpholino 786 CO ₂ CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 787 CO ₂ CH ₃ 2-F-phenyl 4-morpholinocarbonyl 788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 797 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl			- -	_
786 CO ₂ CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 787 CO ₂ CH ₃ 2-F-phenyl 4-morpholinocarbonyl 788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
787 CO ₂ CH ₃ 2-F-phenyl 4-morpholinocarbonyl 788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
788 CO ₂ CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl 789 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
789 CO ₂ CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl 790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
790 CO ₂ CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl 791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl		_		_
791 CO ₂ CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl 792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl			- -	
792 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl 793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
793 CO ₂ CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl 794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl			• •	
794 CO ₂ CH ₃ 2,6-diF-phenyl 2-(methylsulfonyl)phenyl 795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
795 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholino 796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				- ···
796 CO ₂ CH ₃ 2,6-diF-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl		_		
797 CO ₂ CH ₃ 2,6-diF-phenyl 4-morpholinocarbonyl 798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
798 CO ₂ CH ₃ 2,6-diF-phenyl 2-methyl-1-imidazolyl 799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				
799 CO ₂ CH ₃ 2,6-diF-phenyl 5-methyl-1-imidazolyl				_
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			_	_
800 CO ₂ CH ₃ 2,6-diF-phenyl 2-methylsulfonyl-1-imidazolyl			_ _	——————————————————————————————————————
	800	CO ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl

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801	CH ₂ OCH ₃	phenyl	2-(aminosulfonyl)phenyl
802	CH ₂ OCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
803	CH ₂ OCH ₃	phenyl	1-pyrrolidinocarbonyl
804	CH ₂ OCH ₃	phenyl	2-(methylsulfonyl)phenyl
805	CH ₂ OCH ₃	phenyl	4-morpholino
806	CH ₂ OCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
807	CH ₂ OCH ₃	phenyl	4-morpholinocarbonyl
808	CH ₂ OCH ₃	phenyl	2-methyl-1-imidazolyl
809	CH ₂ OCH ₃	phenyl	5-methyl-1-imidazolyl
810	CH ₂ OCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
811	CH ₂ OCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
812	CH ₂ OCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
813	CH ₂ OCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
814	CH ₂ OCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
815	CH ₂ OCH ₃	2-pyridyl	4-morpholino
816	CH ₂ OCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
817	CH ₂ OCH ₃	2-pyridyl	4-morpholinocarbonyl
818	CH ₂ OCH ₃	2-pyridyl	2-methyl-1-imidazolyl
819	CH ₂ OCH ₃	2-pyridyl	5-methyl-1-imidazolyl
820	CH ₂ OCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
821	CH ₂ OCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
822	CH ₂ OCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
823	CH ₂ OCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
824	CH ₂ OCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
825	CH ₂ OCH ₃	3-pyridyl	4-morpholino
826	CH ₂ OCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
827	CH ₂ OCH ₃	3-pyridyl	4-morpholinocarbonyl
828	CH ₂ OCH ₃	3-pyridyl	2-methyl-1-imidazolyl
829	CH ₂ OCH ₃	3-pyridyl	5-methyl-1-imidazolyl
830	CH ₂ OCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
831	CH ₂ OCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
832	CH ₂ OCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
83 3	CH ₂ OCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
834	CH ₂ OCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
835	CH ₂ OCH ₃	2-pyrimidyl	4-morpholino
836	CH ₂ OCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
837	CH ₂ OCH ₃	2-pyrimidyl	4-morpholinocarbonyl
838	CH ₂ OCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
839	CH ₂ OCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
840	CH ₂ OCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
841	CH ₂ OCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
842	CH ₂ OCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
843	CH ₂ OCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
844	CH ₂ OCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
84 5	CH ₂ OCH ₃	5-pyrimidyl	4-morpholino
846	CH ₂ OCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
847	CH ₂ OCH ₃	5-pyrimidyl	4-morpholinocarbonyl
848	CH ₂ OCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl

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849	CH ₂ OCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
850	CH ₂ OCH ₃		2-methylsulfonyl-1-imidazolyl
851	CH ₂ OCH ₃		2-(aminosulfonyl)phenyl
852	CH ₂ OCH ₃		2-(methylaminosulfonyl)phenyl
853	CH ₂ OCH ₃		1-pyrrolidinocarbonyl
854	CH ₂ OCH ₃	2-C1-phenyl	2-(methylsulfonyl)phenyl
85 5	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholino
85 6	CH ₂ OCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
857	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
858	CH ₂ OCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
859	CH ₂ OCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
860	CH ₂ OCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
861	CH ₂ OCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
862	CH ₂ OCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
863	CH ₂ OCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
864	CH ₂ OCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
865	CH ₂ OCH ₃	2-F-phenyl	4-morpholino
866	CH ₂ OCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
867	CH ₂ OCH ₃	2-F-phenyl	4-morpholinocarbonyl
868	CH ₂ OCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
869	CH ₂ OCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
870	CH ₂ OCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
871	CH ₂ OCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
872	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
873	CH ₂ OCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
874	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
875	CH ₂ OCH ₃	2,6-diF-phenyl	4-morpholino
876	CH ₂ OCH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
877	CH ₂ OCH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
878	CH ₂ OCH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
879	CH ₂ OCH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
880	CH ₂ OCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
881	CONH ₂	phenyl	2-(aminosulfonyl)phenyl
882	CONH ₂	phenyl	2-(methylaminosulfonyl)phenyl
883	CONH ₂	phenyl	1-pyrrolidinocarbonyl
884	CONH ₂	phenyl	2-(methylsulfonyl)phenyl
885	CONH ₂	phenyl	4-morpholino
886	CONH ₂	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
887	CONH ₂	phenyl	4-morpholinocarbonyl
888	CONH ₂	phenyl	2-methyl-1-imidazolyl
889	CONH ₂	phenyl	5-methyl-1-imidazolyl
890	CONH ₂	phenyl	2-methylsulfonyl-1-imidazolyl
891	CONH ₂	2-pyridyl	2-(aminosulfonyl)phenyl
892	CONH ₂	2-pyridyl	2-(methylaminosulfonyl)phenyl
893	CONH ₂	~ 2-pyridyl	1-pyrrolidinocarbonyl
894	CONH ₂	2-pyridyl	2-(methylsulfonyl)phenyl
895	CONH ₂	2-pyridyl	4-morpholino
896	CONH ₂	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl

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	897	$CONH_2$	2-pyridyl	4-morpholinocarbonyl
	898	$CONH_2$	2-pyridyl	2-methyl-1-imidazolyl
	899	CONH ₂	2-pyridyl	5-methyl-1-imidazolyl
	900	CONH ₂	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	901	CONH ₂	3-pyridyl	2-(aminosulfonyl)phenyl
	902	CONH ₂	3-pyridyl	2-(methylaminosulfonyl)phenyl
	903	CONH ₂	3-pyridyl	1-pyrrolidinocarbonyl
	904	CONH ₂	3-pyridyl	2-(methylsulfonyl)phenyl
	905	CONH ₂	3-pyridyl	4-morpholino
	906	CONH ₂	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	907	CONH ₂	3-pyridyl	4-morpholinocarbonyl
	908	CONH ₂	3-pyridyl	2-methyl-1-imidazolyl
	909	CONH ₂	3-pyridyl	5-methyl-1-imidazolyl
	910	CONH ₂	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	911	CONH ₂	2-pyrimidyl	2-(aminosulfonyl)phenyl
	912	$CONH_2$	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	913	$CONH_2$	2-pyrimidyl	1-pyrrolidinocarbonyl
	914	$CONH_2$	2-pyrimidyl	2-(methylsulfonyl)phenyl
	915	$CONH_2$	2-pyrimidyl	4-morpholino
	916	$CONH_2$	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	917	CONH ₂	2-pyrimidyl	4-morpholinocarbonyl
	918	CONH ₂	2-pyrimidyl	2-methyl-1-imidazolyl
	919	$CONH_2$	2-pyrimidyl	5-methyl-1-imidazolyl
	920	CONH ₂	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	921	CONH ₂	5-pyrimidyl	2-(aminosulfonyl)phenyl
	922	CONH ₂	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	923	CONH ₂	5-pyrimidyl	1-pyrrolidinocarbonyl
	924	$CONH_2$	5-pyrimidyl	2-(methylsulfonyl)phenyl
	925	CONH ₂	5-pyrimidyl	4-morpholino
	926	CONH ₂	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	927	CONH ₂	5-pyrimidyl	4-morpholinocarbonyl
	928	CONH ₂	5-pyrimidyl	2-methyl-1-imidazolyl
	92 9	CONH ₂	5-pyrimidyl	5-methyl-1-imidazolyl
_	930	CONH ₂	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	931	CONH ₂	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	932	CONH ₂	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	933	CONH ₂	2-Cl-phenyl	1-pyrrolidinocarbonyl
	934	CONH ₂	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	935	CONH ₂	2-Cl-phenyl	4-morpholino
	936	CONH ₂	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	937	$CONH_2$	2-Cl-phenyl	4-morpholinocarbonyl
	938	CONH ₂	2-Cl-phenyl	2-methyl-1-imidazolyl
	939	CONH ₂	2-Cl-phenyl	5-methyl-1-imidazolyl
_	940	CONH ₂	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	941	CONH ₂	2-F-phenyl	2-(aminosulfonyl)phenyl
	942	CONH ₂	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	943	CONH ₂	2-F-phenyl	1-pyrrolidinocarbonyl
	944	CONH ₂	2-F-phenyl	2-(methylsulfonyl)phenyl

	945	CONH ₂	2-F-phenyl	4-morpholino
	946	CONH ₂	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	947	CONH ₂	2-F-phenyl	4-morpholinocarbonyl
	94 8	CONH ₂	2-F-phenyl	2-methyl-1-imidazolyl
	949	CONH ₂	2-F-phenyl	5-methyl-1-imidazolyl
_	950	CONH ₂	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
_	951	CONH ₂	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	952	CONH ₂	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	953	CONH ₂	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	954	CONH ₂	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	955	CONH ₂	2,6-diF-phenyl	4-morpholino
	956	CONH ₂	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	957	CONH ₂	2,6-diF-phenyl	4-morpholinocarbonyl
	958	CONH ₂	2,6-diF-phenyl	2-methyl-1-imidazolyl
	959	CONH ₂	2,6-diF-phenyl	5-methyl-1-imidazolyl
	960	CONH ₂	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl

Table 3

Ex #	A	В
1	phenyl	2-(aminosulfonyl)phenyl
2	phenyl	2-(methylaminosulfonyl)phenyl
3	phenyl	1-pyrrolidinocarbonyl
4	phenyl	2-(methylsulfonyl)phenyl
5	phenyl	4-morpholino
6	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
7	phenyl	4-morpholinocarbonyl
8	phenyl	2-methyl-1-imidazolyl
9	phenyl	5-methyl-1-imidazolyl
10	phenyl	2-methylsulfonyl-1-imidazolyl
11	2-pyridyl	2-(aminosulfonyl)phenyl
12	2-pyridyl	2-(methylaminosulfonyl)phenyl
13	2-pyridyl	1-pyrrolidinocarbonyl
14	2-pyridyl	2-(methylsulfonyl)phenyl
15	2-pyridyl	4-morpholino
16	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
17	2-pyridyl	4-morpholinocarbonyl
18	2-pyridyl	2-methyl-1-imidazolyl
19	2-pyridyl	5-methyl-1-imidazolyl
20	2-pyridyl	2-methylsulfonyl-1-imidazolyl
21	3-pyridyl	2-(aminosulfonyl)phenyl
22	3-pyridyl	2-(methylaminosulfonyl)phenyl
23	3-pyridyl	1-pyrrolidinocarbonyl
24	3-pyridyl	2-(methylsulfonyl)phenyl
25	3-pyridyl	4-morpholino
26	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
27	3-pyridyl	4-morpholinocarbonyl
28	3-pyridyl	2-methyl-1-imidazolyl
29	3-pyridyl	5-methyl-1-imidazolyl
30	3-pyridyl	2-methylsulfonyl-1-imidazolyl
31	2-pyrimidyl	2-(aminosulfonyl)phenyl
32	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
33	2-pyrimidyl	1-pyrrolidinocarbonyl
34	2-pyrimidyl	2-(methylsulfonyl)phenyl
35	2-pyrimidyl	4-morpholino
36	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
37	2-pyrimidyl	4-morpholinocarbonyl
38	2-pyrimidyl	2-methyl-1-imidazolyl
39	2-pyrimidyl	5-methyl-1-imidazolyl
40	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl

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41	5-pyrimidyl	2-(aminosulfonyl)phenyl
42	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
43	5-pyrimidyl	1-pyrrolidinocarbonyl
44	5-pyrimidyl	2-(methylsulfonyl)phenyl
45	5-pyrimidyl	4-morpholino
46	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
47	5-pyrimidyl	4-morpholinocarbonyl
48	5-pyrimidyl	2-methyl-1-imidazolyl
49	5-pyrimidyl	5-methyl-1-imidazolyl
50	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
51	2-Cl-phenyl	2-(aminosulfonyl)phenyl
52	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
53	2-Cl-phenyl	1-pyrrolidinocarbonyl
54	2-Cl-phenyl	2-(methylsulfonyl)phenyl
55	2-Cl-phenyl	4-morpholino
56	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
57	2-Cl-phenyl	4-morpholinocarbonyl
58	2-Cl-phenyl	2-methyl-1-imidazolyl
59	2-Cl-phenyl	5-methyl-1-imidazolyl
60	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
61	2-F-phenyl	2-(aminosulfonyl)phenyl
62	2-F-phenyl	2-(methylaminosulfonyl)phenyl
63	2-F-phenyl	1-pyrrolidinocarbonyl
64	2-F-phenyl	2-(methylsulfonyl)phenyl
65	2-F-phenyl	4-morpholino
66	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
67	2-F-phenyl	4-morpholinocarbonyl
68	2-F-phenyl	2-methyl-1-imidazolyl
69	2-F-phenyl	5-methyl-1-imidazolyl
70	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
71	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
72	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
73	2,6-diF-phenyl	1-pyrrolidinocarbonyl
74	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
75	2,6-diF-phenyl	4-morpholino
76	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
77	2,6-diF-phenyl	4-morpholinocarbonyl
78	2,6-diF-phenyl	2-methyl-1-imidazolyl
79	2,6-diF-phenyl	5-methyl-1-imidazolyl
80	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl

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For each example, DE is:

- (A) pyridin-4-yl-CH₂,
 (B) 2-amino-pyrimidin-4-yl,
 (C) 6-amino-pyridin-2-yl,
 (D) 3-amidino-4-F-phenyl, or
 (E) N-amidino-3-piperidinyl.

Ex #	Rla	A	В
1.	CH ₃	phenyl	2-(aminosulfonyl)phenyl
2	CH_3	phenyl	2-(methylaminosulfonyl)phenyl
3	CH ₃	phenyl	1-pyrrolidinocarbonyl
4	CH ₃	phenyl	2-(methylsulfonyl)phenyl
5	CH_3	phenyl	4-morpholino
6	CH_3	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
7	CH_3	phenyl	4-morpholinocarbonyl
8	CH_3	phenyl	2-methyl-1-imidazolyl
9	CH ₃	phenyl	5-methyl-1-imidazolyl
10	CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
11	CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
12	CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
13	CH_3	2-pyridyl	1-pyrrolidinocarbonyl
14	CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
15	CH ₃	2-pyridyl	4-morpholino
16	CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
17	CH ₃	2-pyridyl	4-morpholinocarbonyl
18	CH ₃	2-pyridyl	2-methyl-1-imidazolyl
19	CH_3	2-pyridyl	5-methyl-1-imidazolyl
20	CH_3	2-pyridyl	2-methylsulfonyl-1-imidazolyl
21	CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
22	CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
23	CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
24	CH_3	3-pyridyl	2-(methylsulfonyl)phenyl
25	CH_3	3-pyridyl	4-morpholino
26	CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
27	CH ₃	3-pyridyl	4-morpholinocarbonyl
28	CH ₃	3-pyridyl	2-methyl-1-imidazolyl
29	CH ₃	3-pyridyl	5-methyl-1-imidazolyl
30	CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
31	CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
32	CH_3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
33	CH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
34	CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
35	CH ₃	2-pyrimidyl	4-morpholino
36	CH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
37	CH ₃	2-pyrimidyl	4-morpholinocarbonyl
38	CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
39	CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
40	CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl

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41	CH ₃	5-pyrimidyl	2-(aminosulfonyl) phenyl

	41	CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	42	CH_3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	43	CH_3	5-pyrimidyl	1-pyrrolidinocarbonyl
	44	CH_3	5-pyrimidyl	2-(methylsulfonyl)phenyl
	45	CH ₃	5-pyrimidyl	4-morpholino
	46	CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	47	CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	48	CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	49	CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	50	CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	51	CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	52	CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	53	CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	54	CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	55	CH ₃	2-Cl-phenyl	4-morpholino
	56	CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	57	CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	58	CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	59	CH ₃	2-Cl-phenyl	
	60	CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
-	61	CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	62	CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	63	CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	64	CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	65	CH ₃		2-(methylsulfonyl)phenyl
	66	CH ₃	2-F-phenyl 2-F-phenyl	4-morpholino
	67	CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	68	CH ₃		4-morpholinocarbonyl
	69	CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	70		2-F-phenyl	5-methyl-1-imidazolyl
-	71	CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	71 72	CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	73	CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
		CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	74	CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	75	CH ₃	2,6-diF-phenyl	4-morpholino
	76	CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	77	CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	78	CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	79	CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	80	CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	81	CH ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
	82	CH ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	83	CH ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	84	CH ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	85	CH ₂ CH ₃	phenyl	4-morpholino
	86	CH ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	87	CH ₂ CH ₃	phenyl	4-morpholinocarbonyl
	88	CH ₂ CH ₃	phenyl	2-methyl-1-imidazolyl

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89	CH ₂ CH ₃	phenyl	5-methyl-1-imidazolyl
90	CH ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
91	CH ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
92	CH ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
93	CH ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
94	CH ₂ CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
95	CH ₂ CH ₃	2-pyridyl	4-morpholino
96	CH ₂ CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
97	CH ₂ CH ₃	2-pyridyl	4-morpholinocarbonyl
98	CH ₂ CH ₃	2-pyridyl	2-methyl-1-imidazolyl
99	CH ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
100	CH ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
101	CH ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
102	CH ₂ CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
103	CH ₂ CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
104	CH ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
105	CH ₂ CH ₃	3-pyridyl	4-morpholino
106	CH ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
107	CH ₂ CH ₃	3-pyridyl	4-morpholinocarbonyl
108	CH ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
109	CH ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
110	CH ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
111	CH ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
112	CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
113	CH ₂ CH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
114	CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	2-(methylsulfonyl)phenyl
115	CH ₂ CH ₃	2-pyrimidyl	4-morpholino
116	CH ₂ CH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
117	CH ₂ CH ₃	2-pyrimidyl	4-morpholinocarbonyl
118	CH ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
119	CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	5-methyl-1-imidazolyl
120	CH ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
121	CH ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
122	CH ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
123	CH ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
124	CH ₂ CH ₃	5-pyrimidyl 5-pyrimidyl	2-(methylsulfonyl)phenyl
125	CH ₂ CH ₃	5-pyrimidyl 5-pyrimidyl	4-morpholino
126	CH ₂ CH ₃	5-pyrimidyl 5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
127	CH ₂ CH ₃	5-pyrimidyl 5-pyrimidyl	4-morpholinocarbonyl
128	CH ₂ CH ₃ CH ₂ CH ₃	5-pyrimidyl 5-pyrimidyl	2-methyl-1-imidazolyl
129			_
	CH ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
<u>130</u>	CH ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
131	CH ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
132	CH ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
133	CH ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
134	CH ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
135	CH ₂ CH ₃	2-Cl-phenyl	4-morpholino
136	CH ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl

	137	CH ₂ CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	138	CH_2CH_3	2-Cl-phenyl	2-methyl-1-imidazolyl
	139	CH ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	140	CH ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	141	CH ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	142	CH ₂ CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	143	CH ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	144	CH ₂ CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	145	CH ₂ CH ₃	2-F-phenyl	4-morpholino
	146	CH ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	147	CH ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
	148	CH_2CH_3	2-F-phenyl	2-methyl-1-imidazolyl
	149	CH ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	150	CH ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	151	CH ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	15 2	CH_2CH_3	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	153	CH_2CH_3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	154	CH ₂ CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	155	CH_2CH_3	2,6-diF-phenyl	4-morpholino
	156	CH_2CH_3	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	157	CH_2CH_3	2,6-diF-phenyl	4-morpholinocarbonyl
	158	CH_2CH_3	2,6-diF-phenyl	2-methyl-1-imidazolyl
	159	CH_2CH_3	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	160	CH ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	161	CF ₃	phenyl	2-(aminosulfonyl)phenyl
	162	CF ₃	phenyl	2-(methylaminosulfonyl)phenyl
	163	CF ₃	phenyl	1-pyrrolidinocarbonyl
	164	CF ₃	phenyl	2-(methylsulfonyl)phenyl
	165	CF_3	phenyl	4-morpholino
	166	\mathtt{CF}_3	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	167	CF ₃	phenyl	4-morpholinocarbonyl
	168	\mathtt{CF}_3	phenyl	2-methyl-1-imidazolyl
	169	CF ₃	phenyl	5-methyl-1-imidazolyl
_	170	CF ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	171	CF ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	172	CF ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	173	CF ₃	2-pyridyl	1-pyrrolidinocarbonyl
	174	CF_3	2-pyridyl	2-(methylsulfonyl)phenyl
	175	CF ₃	2-pyridyl	4-morpholino
	176	CF ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	177	CF ₃	2-pyridyl	4-morpholinocarbonyl
	178	\mathtt{CF}_3	2-pyridyl	2-methyl-1-imidazolyl
	179	CF ₃	2-pyridyl	5-methyl-1-imidazolyl
_	180	CF ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	181	\mathtt{CF}_3	3-pyridyl	2-(aminosulfonyl)phenyl
	182	CF ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	183	CF ₃	3-pyridyl	1-pyrrolidinocarbonyl
	184	CF ₃	3-pyridyl	2-(methylsulfonyl)phenyl

	185	CF ₃	3-pyridyl	4-morpholino
	186	CF ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	187	CF ₃	3-pyridyl	4-morpholinocarbonyl
	188	CF ₃	3-pyridyl .	2-methyl-1-imidazolyl
	189	CF ₃	3-pyridyl	5-methyl-1-imidazolyl
	190	CF ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	191	CF ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	192	CF ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	193	CF ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	194	CF ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	195	CF ₃	2-pyrimidyl	4-morpholino
	196	CF ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	197	CF_3	2-pyrimidyl	4-morpholinocarbonyl
	198	CF ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	199	CF ₃	2-pyrimidyl	5-methyl-1-imidazolyl
	200	CF ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	201	CF ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	202	CF ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	203	CF ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	204	CF_3	5-pyrimidyl	2-(methylsulfonyl)phenyl
	205	CF_3	5-pyrimidyl	4-morpholino
	206	CF_3	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	. 207	CF ₃	5-pyrimidyl	4-morpholinocarbonyl
	208	\mathtt{CF}_3	5-pyrimidyl	2-methyl-1-imidazolyl
	209	CF ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	210	CF_3	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	211	CF ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	212	CF ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	213	CF_3	2-Cl-phenyl	1-pyrrolidinocarbonyl
	214	CF_3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	215	CF ₃	2-Cl-phenyl	4-morpholino
	216	CF ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	217	CF ₃	2-Cl-phenyl	4-morpholinocarbonyl
	218	CF_3	2-Cl-phenyl	2-methyl-1-imidazolyl
	219	CF_3	2-Cl-phenyl	5-methyl-1-imidazolyl
_	220	. CF ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	221	CF ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	222	CF ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	223	CF_3	2-F-phenyl	1-pyrrolidinocarbonyl
	224	CF ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	225	CF ₃	2-F-phenyl	4-morpholino
	226	CF_3	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	227	CF ₃	2-F-phenyl	4-morpholinocarbonyl
	228	CF ₃	2-F-phenyl	2-methyl-1-imidazolyl
	229	CF ₃	2-F-phenyl	5-methyl-1-imidazolyl
_	230	CF ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	231	CF ₃ ;	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	232	CF ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl

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	233	CF_3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	234	CF_3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	235	CF ₃	2,6-diF-phenyl	4-morpholino
	236	CF ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	237	CF ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	238	CF ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	239	CF ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	240	CF ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	241	SCH ₃	phenyl	2-(aminosulfonyl)phenyl
	242	SCH_3	phenyl	2-(methylaminosulfonyl)phenyl
	243	SCH ₃	phenyl	1-pyrrolidinocarbonyl
	244	SCH ₃	phenyl	2-(methylsulfonyl)phenyl
	245	SCH ₃	phenyl	4-morpholino
	246	SCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	247	SCH ₃	phenyl	4-morpholinocarbonyl
	248	SCH ₃	phenyl	2-methyl-1-imidazolyl
	249	SCH_3	phenyl	5-methyl-1-imidazolyl
	250	SCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	251	SCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	252	SCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
•	253	SCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	254	SCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	255	SCH_3	2-pyridyl	4-morpholino
	256	SCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	257	SCH ₃	2-pyridyl	4-morpholinocarbonyl
	258	SCH_3	2-pyridyl	2-methyl-1-imidazolyl
	259	SCH_3	2-pyridyl	5-methyl-1-imidazolyl
_	260	SCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	261	SCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	262	SCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	263	SCH_3	3-pyridyl	1-pyrrolidinocarbonyl
	264	SCH_3	3-pyridyl	2-(methylsulfonyl)phenyl
	265	SCH_3	3-pyridyl	4-morpholino
	266	SCH_3	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	267	SCH ₃	3-pyridyl	4-morpholinocarbonyl
	268	SCH_3	3-pyridyl	2-methyl-1-imidazolyl
	269	SCH ₃	3-pyridyl	5-methyl-1-imidazolyl
	270	SCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	271	SCH_3	2-pyrimidyl	2-(aminosulfonyl)phenyl
	272	SCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	273	SCH_3	2-pyrimidyl	1-pyrrolidinocarbonyl
	274	SCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	275	SCH ₃	2-pyrimidyl	4-morpholino
	276	SCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	277	SCH ₃	-	4-morpholinocarbonyl
	278	SCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	279	SCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
	280	SCH3	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl

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2	81 SCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
2	52 SCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
2	83 . SCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
2	84 SCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
28	85 SCH ₃	5-pyrimidyl	4-morpholino
	$S6 SCH_3$	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	37 SCH ₃	5-pyrimidyl	4-morpholinocarbonyl
	88 SCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	39 SCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	90 SCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
29		2-Cl-phenyl	
29	, -		2-(aminosulfonyl)phenyl
29	~	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	~	2-Cl-phenyl	1-pyrrolidinocarbonyl
29	3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
29	3	2-Cl-phenyl	4-morpholino
29	3	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
29	3	2-Cl-phenyl	4-morpholinocarbonyl
29	,	2-Cl-phenyl	2-methyl-1-imidazolyl
29	J	2-Cl-phenyl	5-methyl-1-imidazolyl
30		2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
3 (9	2-F-phenyl	2-(aminosulfonyl)phenyl
30	_	2-F-phenyl	2-(methylaminosulfonyl)phenyl
30	2	2-F-phenyl	1-pyrrolidinocarbonyl
30	J	2-F-phenyl	2-(methylsulfonyl)phenyl
30	J .	2-F-phenyl	4-morpholino
30	_	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
3.0	<i>J</i>	2-F-phenyl	4-morpholinocarbonyl
30	SCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
30	9 SCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
31	.0 SCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
31	1 SCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
31	.2 SCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
31	.3 SCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
31	.4 SCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
31	.5 SCH ₃	2,6-diF-phenyl	4-morpholino
31	.6 SCH3	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
31	7 SCH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
31	.8 SCH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
31	.9 SCH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
32	_	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
32		phenyl	2-(aminosulfonyl)phenyl
32	3	phenyl	2-(methylaminosulfonyl)phenyl
32	3	phenyl	1-pyrrolidinocarbonyl
32	,	phenyl	2-(methylsulfonyl)phenyl
32	,	phenyl	4-morpholino
32	•	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
32	J.		4-morpholinocarbonyl
32	J :	phenyl	
<i>J </i>	о зосиз	buenAT	2-methyl-1-imidazolyl

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329	SOCH ₃	phenyl	5-methyl-1-imidazolyl
. 330	SOCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
331	SOCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
332	SOCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
333	SOCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
334	SOCH3	2-pyridyl	2-(methylsulfonyl)phenyl
335	SOCH ₃	2-pyridyl	4-morpholino
336	SOCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
337	SOCH ₃	2-pyridyl	4-morpholinocarbonyl
338	SOCH ₃	2-pyridyl	2-methyl-1-imidazolyl
339	SOCH ₃	2-pyridyl	5-methyl-1-imidazolyl
340	SOCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
341	SOCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
342	SOCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
343	SOCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
344	SOCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
345	SOCH ₃	3-pyridyl	4-morpholino
346	SOCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
347	SOCH ₃	3-pyridyl	4-morpholinocarbonyl
348	SOCH ₃	3-pyridyl	2-methyl-1-imidazolyl
349	SOCH ₃	3-pyridyl	5-methyl-1-imidazolyl
350	SOCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
351	SOCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
352	SOCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
353	SOCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
354	SOCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
355	$SOCH_3$	2-pyrimidyl	4-morpholino
356	SOCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
357	SOCH ₃	2-pyrimidyl	4-morpholinocarbonyl
358	$SOCH_3$	2-pyrimidyl	2-methyl-1-imidazolyl
359	SOCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
360	SOCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
361	SOCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
362	SOCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
363	SOCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
364	SOCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
365	SOCH ₃	5-pyrimidyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
366	SOCH ₃	5-pyrimidyl	4-morpholinocarbonyl
367	SOCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
368	SOCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
369	SOCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
370	SOCH ₃	5-pyrimidyl	2-methyrsurronyr-r-middzoryr 2-(aminosulfonyl)phenyl
371	SOCH ₃	2-Cl-phenyl	2-(aminosuffonyl)phenyl 2-(methylaminosulfonyl)phenyl
372	SOCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
373	SOCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
374	SOCH ₃	2-Cl-phenyl	4-morpholino
375	SOCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
376	SOCH ₃	2-Cl-phenyl	Z-(I -cr3 cectazor-z-Ar/buenAr

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3	77 SOCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
3'	78 SOCH ₃		2-methyl-1-imidazolyl
3'	79 SOCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
38	80 SOCH ₃	2-C1-phenyl	2-methylsulfonyl-1-imidazolyl
38	31 SOCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
38	SOCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
38	33 SOCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
38	SOCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
38	SOCH ₃	2-F-phenyl	4-morpholino
38	36 SOCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
38	SOCH ₃	2-F-phenyl	4-morpholinocarbonyl
38	38 SOCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
38	39 SOCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
_ 39	0 SOCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
39	91 SOCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
39	SOCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
39	SOCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
39	94 SOCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
39	5 SOCH ₃	2,6-diF-phenyl	4-morpholino
39		2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
39		2,6-diF-phenyl	4-morpholinocarbonyl
39	-	2,6-diF-phenyl	2-methyl-1-imidazolyl
39		2,6-diF-phenyl	5-methyl-1-imidazolyl
40		2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
40	- 2 - 3	_	2-(aminosulfonyl)phenyl
40	2 2		2-(methylaminosulfonyl)phenyl
40	2 3		1-pyrrolidinocarbonyl
40			2-(methylsulfonyl)phenyl
40	2 3		4-morpholino
40	2 3		2-(1'-CF ₃ -tetrazol-2-yl)phenyl
40		<u> </u>	4-morpholinocarbonyl
40	2 - 3	phenyl	2-methyl-1-imidazolyl
40	2 3	phenyl	5-methyl-1-imidazolyl
41		phenyl	2-methylsulfonyl-1-imidazolyl
41	2 - 3	2-pyridyl	2-(aminosulfonyl)phenyl
41	2 - 3	2-pyridyl	2-(methylaminosulfonyl)phenyl
41	2, 3	2-pyridyl	1-pyrrolidinocarbonyl
41		2-pyridyl	2-(methylsulfonyl)phenyl
41 41		2-pyridyl	4-morpholino
41	2 3	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
41	2 - 3	2-pyridyl	4-morpholinocarbonyl
41	2 - 3	2-pyridyl	2-methyl-1-imidazolyl
42	2 3	2-pyridyl	5-methyl-1-imidazolyl
$-\frac{42}{42}$		2-pyridyl	2-methylsulfonyl-1-imidazolyl
42	2 3	3-pyridyl	2-(aminosulfonyl)phenyl
42	2 3	3-pyridyl	2-(methylaminosulfonyl)phenyl
42	2 3	3-pyridyl 3-pyridyl	1-pyrrolidinocarbonyl
32	4 SO ₂ CH ₃	2-barraar	2-(methylsulfonyl)phenyl

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42 5	SO ₂ CH ₃	3-pyridyl	4-morpholino
426	SO ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
427	SO ₂ CH ₃	3-pyridyl	4-morpholinocarbonyl
428	SO ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
429	SO ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
430	SO ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
431	SO ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
432	SO_2CH_3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
433	SO ₂ CH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
434	SO ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
43 5	SO ₂ CH ₃	2-pyrimidyl	4-morpholino
436	SO_2CH_3	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
437	SO ₂ CH ₃	2-pyrimidyl	4-morpholinocarbonyl
43 8	SO ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
439	SO ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
440	SO ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
441	SO ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
442	SO ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
44 3	SO ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
444	SO_2CH_3	5-pyrimidyl	2-(methylsulfonyl)phenyl
445	SO_2CH_3	5-pyrimidyl	4-morpholino
446	SO_2CH_3	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
447	SO_2CH_3	5-pyrimidyl	4-morpholinocarbonyl
448	SO_2CH_3	5-pyrimidyl	2-methyl-1-imidazolyl
449	SO_2CH_3	5-pyrimidyl	5-methyl-1-imidazolyl
450	SO ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
451	SO ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
452	SO_2CH_3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
45 3	SO ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
454	SO ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
45 5	SO_2CH_3	2-Cl-phenyl	4-morpholino
456	SO_2CH_3	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
457	SO_2CH_3	2-Cl-phenyl	4-morpholinocarbonyl
458	SO ₂ CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
459	SO ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
460	SO ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
461	SO ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
462	SO ₂ CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
46 3	SO_2CH_3	2-F-phenyl	1-pyrrolidinocarbonyl
464	SO_2CH_3	2-F-phenyl	2-(methylsulfonyl)phenyl
465	SO ₂ CH ₃	2-F-phenyl	4-morpholino
466	SO ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
467	SO ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
468	SO ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
469	SO ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
470	SO ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
471	SO ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
472	SO ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl

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473	SO ₂ CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
474	SO ₂ CH ₃	2,6-diF-phenyl	-
475	SO ₂ CH ₃	2,6-diF-phenyl	
476	SO ₂ CH ₃	2,6-diF-phenyl	
477	SO ₂ CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
478	SO ₂ CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
479	SO ₂ CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
480	SO ₂ CH ₃		
481	CH ₂ NH-	phenyl	2-(aminosulfonyl)phenyl
	SO ₂ CH ₃		
482	CH ₂ NH-	phenyl	2-(methylaminosulfonyl)phenyl
	SO ₂ CH ₃	- -	2 = , E = , E = , E = ,
483	CH ₂ NH-	phenyl	1-pyrrolidinocarbonyl
	SO ₂ CH ₃		
484	CH ₂ NH-	phenyl	2-(methylsulfonyl)phenyl
	SO ₂ CH ₃		
485	CH ₂ NH-	phenyl	4-morpholino
	SO ₂ CH ₃		<u>-</u>
486	CH ₂ NH-	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO ₂ CH ₃		
487	CH ₂ NH-	phenyl	4-morpholinocarbonyl
	SO ₂ CH ₃		
488	CH ₂ NH-	phenyl	2-methyl-1-imidazolyl
	SO ₂ CH ₃		
489	CH ₂ NH-	phenyl	5-methyl-1-imidazolyl
	SO ₂ CH ₃		
490	CH ₂ NH-	phenyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃	<u> </u>	
491	CH ₂ NH-	2-pyridyl	2-(aminosulfonyl)phenyl
	SO ₂ CH ₃		
492	CH ₂ NH-	2-pyridyl	2-(methylaminosulfonyl)phenyl
400	SO ₂ CH ₃		
493	CH ₂ NH-	2-pyridyl	1-pyrrolidinocarbonyl
404	SO ₂ CH ₃		
494	CH ₂ NH-	2-pyridyl	2-(methylsulfonyl)phenyl
405	SO ₂ CH ₃	0	4
495	CH ₂ NH-	2-pyridyl	4-morpholino
106	SO ₂ CH ₃	0	0 /1/ 67 1 0 1 1 1
496	CH ₂ NH-	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
497	SO ₂ CH ₃	2	4 1 7 . 1
437	CH ₂ NH-	2-pyridyl	4-morpholinocarbonyl
49 8	SO ₂ CH ₃	0	0
430	CH ₂ NH-	2-pyridyl	2-methyl-1-imidazolyl
499	SO ₂ CH ₃	2 mrmid:-1	E mother 1 1 2 - 2 2 - 2 2
422	_	2-pyridyl	5-methyl-1-imidazolyl
500	SO ₂ CH ₃ CH ₂ NH-	2-pyridyl	2-mothylculfonyl 1 dedde-12 2
200	_	z-barraar	2-methylsulfonyl-1-imidazolyl
	SO_2CH_3		

PCT/US97/23470 WO 98/28282 501 3-pyridyl CH₂NH-2-(aminosulfonyl)phenyl SO₂CH₃ 502 2-(methylaminosulfonyl)phenyl CH₂NH-3-pyridyl SO₂CH₃ 503 3-pyridyl CH2NH-1-pyrrolidinocarbonyl SO₂CH₃ 504 CH2NH-2-(methylsulfonyl)phenyl 3-pyridyl SO₂CH₃ 505 CH₂NH-3-pyridyl 4-morpholino SO₂CH₃ 506 CH₂NH-3-pyridyl 2-(1'-CF3-tetrazol-2-yl)phenyl SO₂CH₃ 507 CH₂NH-3-pyridyl 4-morpholinocarbonyl SO₂CH₃ 508 CH₂NH-3-pyridyl 2-methyl-1-imidazolvl SO₂CH₃ 509 CH₂NH-3-pyridyl 5-methyl-1-imidazolvl SO₂CH₃ 510 CH₂NH-3-pyridyl 2-methylsulfonyl-1-imidazolyl SO₂CH₃ 511 CH₂NH-2-pyrimidyl 2-(aminosulfonyl)phenyl SO₂CH₃ 512 CH₂NH-2-pyrimidyl 2-(methylaminosulfonyl)phenyl SO₂CH₃ 513 CH₂NH-2-pyrimidyl 1-pyrrolidinocarbonyl SO₂CH₃ 514 CH₂NH-2-pyrimidyl 2-(methylsulfonyl)phenyl SO₂CH₃ 515 CH₂NH-2-pyrimidyl 4-morpholino SO₂CH₃ 516 2-(1'-CF3-tetrazol-2-yl)phenyl CH₂NH-2-pyrimidyl SO₂CH₃ 517 CH₂NH-2-pyrimidyl 4-morpholinocarbonyl SO₂CH₃ 518 CH₂NH-2-pyrimidyl 2-methyl-1-imidazolyl SO₂CH₃ 519 CH₂NH-2-pyrimidyl 5-methyl-1-imidazolvl SO₂CH₃ 520 CH₂NH-2-pyrimidyl 2-methylsulfonyl-1-imidazolyl SO₂CH₃ 521 CH₂NH-5-pyrimidyl 2-(aminosulfonyl)phenyl SO₂CH₃ 522 CH₂NH-5-pyrimidyl 2-(methylaminosulfonyl)phenyl SO₂CH₃ 523 CH₂NH--5-pyrimidyl 1-pyrrolidinocarbonyl SO₂CH₃ 524 CH2NH-5-pyrimidyl 2-(methylsulfonyl)phenyl

SO₂CH₃

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52 5	CH ₂ NH-	5-pyrimidyl	4-morpholino
	SO ₂ CH ₃		
526	CH ₂ NH-	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO ₂ CH ₃		-
527	CH ₂ NH-	5-pyrimidyl (4-morpholinocarbonyl
	SO ₂ CH ₃		-
528	CH ₂ NH-	5-pyrimidyl	2-methyl-1-imidazolyl
	SO ₂ CH ₃		
529	CH ₂ NH-	5-pyrimidyl	5-methyl-1-imidazolyl
	SO ₂ CH ₃		
530	CH ₂ NH-	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃	1 1 · · · · · · · · · · · · · · · · · · ·	
531	CH ₂ NH-	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	SO ₂ CH ₃	- 0- p, -	2 (aminobaliony 1) pheny 1
532	CH ₂ NH-	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
-	SO ₂ CH ₃	z er phenyr	2 (meeny taminosa i tony i) pheny i
533	CH ₂ NH-	2-Cl-phenyl	1-pyrrolidinocarbonyl
333	SO ₂ CH ₃	z ci phenyi	1-pyrrorramocarbony1
534	CH ₂ NH-	2-Cl-phenyl	2-(methylsulfonyl)phenyl
224	SO ₂ CH ₃	z-ci-phenyi	z-(methyrsurronyr)phenyr
535	CH ₂ NH-	2-Cl-phenyl	4-morpholino
222	SO ₂ CH ₃	z-cr-phenyr	4-morphorino
536	CH ₂ NH-	2-C1-phenyl	2. (1/ CE2 totmand 2 adduction 2
220	SO ₂ CH ₃	z-ci-phenyi	2-(1'-CF3-tetrazol-2-y1)phenyl
537	CH ₂ NH-	2-Cl-phenyl	4 marmh a 1 i mar a na 1
ر در	SO ₂ CH ₃	z-ci-phenyi	4-morpholinocarbonyl
538	CH ₂ NH-	2-C1-phenyl	2 mothyl 1 inid1.1
330	SO ₂ CH ₃	z-ci-phenyi	2-methyl-1-imidazolyl
539	CH ₂ NH-	2 Cl mhamil	
200	SO ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
540	CH ₂ NH-	2 Cl mhomil	O mother multipud 1 double a a
240	_	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
541	SO ₂ CH ₃		
341	CH ₂ NH-	2-F-phenyl	2-(aminosulfonyl)phenyl
E 4 0	SO ₂ CH ₃	0 711	0 (
542	CH ₂ NH-	2-F-phenyl	2-(methylaminosulfonyl)phenyl
EAD	SO ₂ CH ₃	0 7 1 1	4 2121
543	CH ₂ NH-	2-F-phenyl	1-pyrrolidinocarbonyl
Г 4 4	SO ₂ CH ₃	1	
544	CH ₂ NH-	2-F-phenyl	2-(methylsulfonyl)phenyl
5 4 5	SO ₂ CH ₃		
545	CH ₂ NH-	2-F-phenyl	4-morpholino
- 4 -	SO ₂ CH ₃		
546	CH ₂ NH-	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
.	SO ₂ CH ₃		
547	_	2-F-phenyl	4-morpholinocarbonyl
_	SO ₂ CH ₃		
548	CH ₂ NH-	2-F-phenyl	2-methyl-1-imidazolyl
	SO ₂ CH ₃		

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54 9	CH ₂ NH-	2-F-phenyl	5-methyl-1-imidazolyl
	SO ₂ CH ₃		
550	CH ₂ NH-	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃	- -	1
551	CH2NH-	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	SO ₂ CH ₃	a, a data product	2 (aminosarronyr) phenyr
552	CH ₂ NH-	2,6-diF-phenyl	. 2-(methylaminosulfonyl)phenyl
	SO ₂ CH ₃	-/o dri piichyr	. 2 (meeny taminosuriony 1) pheny 1
55 3	CH ₂ NH-	2,6-diF-phenyl	1
7-2	SO ₂ CH ₃	z,o dir-phenyi	1-pyrrolidinocarbonyl
554	CH ₂ NH-	2 6 din mhamal	2 (
224		2,6-diF-phenyl	2-(methylsulfonyl)phenyl
555	SO ₂ CH ₃	0 6 3 9 1 3	
223	CH ₂ NH-	2,6-diF-phenyl	4-morpholino
556	SO ₂ CH ₃		
556	CH ₂ NH-	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO_2CH_3		
557	CH ₂ NH-	2,6-diF-phenyl	4-morpholinocarbonyl
	SO_2CH_3		-
55 8	CH ₂ NH-	2,6-diF-phenyl	2-methyl-1-imidazolyl
	SO_2CH_3		-
55 9	CH ₂ NH-	2,6-diF-phenyl	5-methyl-1-imidazolyl
	SO_2CH_3	- -	1
560	CH ₂ NH-	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃		
561	Cl	phenyl	2-(aminosulfonyl)phenyl
562	Cl	phenyl	2-(methylaminosulfonyl)phenyl
563	Cl	pḥenyl	1-pyrrolidinocarbonyl
564		phenyl	2-(methylsulfonyl)phenyl
E C E	Cl		z (mechyraurronyr) buenyr
56 5	Cl	phenyl	4-morpholino
56 6	Cl Cl	phenyl phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
566 5 6 7	Cl Cl	phenyl phenyl phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl
566 567 5 6 8	Cl Cl Cl	phenyl phenyl phenyl phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl
566 567 568 569	Cl Cl Cl Cl	phenyl phenyl phenyl phenyl phenyl phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl
566 567 5 6 8	C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl
566 567 568 569 570 571 572	Cl Cl Cl Cl	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl
566 567 568 569 570 571 572 573	C1 C1 C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
566 567 568 569 570 571 572 573 574	C1 C1 C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl
566 567 568 569 570 571 572 573 574 575	C1 C1 C1 C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino
566 567 568 569 570 571 572 573 574 575 576	C1 C1 C1 C1 C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
566 567 568 569 570 571 572 573 574 575 576 577	C1 C1 C1 C1 C1 C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl
566 567 568 569 570 571 572 573 574 575 576 577 578	C1 C1 C1 C1 C1 C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl
566 567 568 569 570 571 572 573 574 575 576 577 578 579	C1 C1 C1 C1 C1 C1 C1 C1 C1 C1	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl
566 567 568 569 570 571 572 573 574 575 576 577 578 579 580	C1 C	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl
566 567 568 569 570 571 572 573 574 575 576 577 578 579	C1 C	phenyl phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 3-pyridyl 3-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl
566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583	C1 C	phenyl phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 3-pyridyl 3-pyridyl 3-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584	C1 C	phenyl phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 3-pyridyl 3-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl
566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585	C1 C	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 3-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylsulfonyl-1-imidazolyl 2-(methylsulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino
566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586	C1 C	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 3-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585	C1 C	phenyl phenyl phenyl phenyl phenyl phenyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 2-pyridyl 3-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl 4-morpholinocarbonyl 2-methyl-1-imidazolyl 5-methyl-1-imidazolyl 2-(aminosulfonyl)phenyl 2-(methylsulfonyl-1-imidazolyl 2-(methylsulfonyl)phenyl 1-pyrrolidinocarbonyl 2-(methylsulfonyl)phenyl 4-morpholino

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589	Cl	3-pyridyl	5-methyl-1-imidazolyl
590	Cl	3-pyridyl	2-methylsulfonyl-1-imidazolyl
591	Cl	2-pyrimidyl	2-(aminosulfonyl)phenyl
592	Cl	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
593	Cl	2-pyrimidyl	1-pyrrolidinocarbonyl
594	Cl	2-pyrimidyl	2-(methylsulfonyl)phenyl
595	Cl	2-pyrimidyl	4-morpholino
596	Cl	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
597	Cl	2-pyrimidyl	4-morpholinocarbonyl
598	Cl	2-pyrimidyl	2-methyl-1-imidazolyl
599	Cl	2-pyrimidyl	5-methyl-1-imidazolyl
600	Cl	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
601	Cl	5-pyrimidyl	2-(aminosulfonyl)phenyl
602	Cl	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
603	Cl	5-pyrimidyl	1-pyrrolidinocarbonyl
604	Cl	5-pyrimidyl	2-(methylsulfonyl)phenyl
605	Cl	5-pyrimidyl	4-morpholino
606	Cl	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
607	Cl	5-pyrimidyl	4-morpholinocarbonyl
608	Cl	5-pyrimidyl	2-methyl-1-imidazolyl
609	Cl	5-pyrimidyl	5-methyl-1-imidazolyl
610	<u>Cl</u>	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
611	Cl	2-Cl-phenyl	2-(aminosulfonyl)phenyl
612.	Cl	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
613	Cl	2-Cl-phenyl	1-pyrrolidinocarbonyl
614	Cl	2-Cl-phenyl	2-(methylsulfonyl)phenyl
615	Cl	2-Cl-phenyl	4-morpholino
616	Cl	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
617	Cl	2-Cl-phenyl	4-morpholinocarbonyl
618	Cl	2-Cl-phenyl	2-methyl-1-imidazolyl
619	Cl	2-Cl-phenyl	5-methyl-1-imidazolyl
620		2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
621	Cl	2-F-phenyl	2-(aminosulfonyl)phenyl
622	C1	2-F-phenyl	2-(methylaminosulfonyl)phenyl
623 624	Cl	2-F-phenyl	1-pyrrolidinocarbonyl
625	Cl Cl	2-F-phenyl	2-(methylsulfonyl)phenyl
626		2-F-phenyl	4-morpholino
	Cl	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
627 628	Cl	2-F-phenyl	4-morpholinocarbonyl
629	Cl	2-F-phenyl	2-methyl-1-imidazolyl
630	Cl Cl	2-F-phenyl	5-methyl-1-imidazolyl
631	Cl	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
632	Cl	2,6-diF-phenyl 2,6-diF-phenyl	2-(aminosulfonyl)phenyl
633	Cl	2,6-dif-phenyl	2-(methylaminosulfonyl)phenyl
634	Cl	2,6-dif-phenyl	1-pyrrolidinocarbonyl
635	Cl	2,6-dif-phenyl	2-(methylsulfonyl)phenyl
636	Cl	2,6-dif-phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
637	Cl	2,6-dif-phenyl	
638	Cl	2,6-dif-phenyl	4-morpholinocarbonyl
639	Cl	2,6-dif-phenyl	2-methyl-1-imidazolyl
_ 640	Cl	2,6-dif-phenyl	5-methyl-1-imidazolyl
641	F	phenyl	2-methylsulfonyl-1-imidazolyl
642	F	phenyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
643	F	phenyl	1-pyrrolidinocarbonyl
	-	Pircita	r barrorrarmocarbonar

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644	F	phenyl	2-(methylsulfonyl)phenyl
645	F	phenyl	4-morpholino
646	F	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
647	F	phenyl	4-morpholinocarbonyl
648	F	phenyl	2-methyl-1-imidazolyl
649	F	phenyl	5-methyl-1-imidazolyl
<u>650</u>	F	phenyl	2-methylsulfonyl-1-imidazolyl
651	F	2-pyridyl	2-(aminosulfonyl)phenyl
652	F	2-pyridyl	2-(methylaminosulfonyl)phenyl
653	F	2-pyridyl	1-pyrrolidinocarbonyl
654	F	2-pyridyl	2-(methylsulfonyl)phenyl
655	F	2-pyridyl	4-morpholino
656	F	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
657	F	2-pyridyl	4-morpholinocarbonyl
658	F	2-pyridyl	2-methyl-1-imidazolyl
659	F	2-pyridyl	5-methyl-1-imidazolyl
660	F	2-pyridyl	2-methylsulfonyl-1-imidazolyl
661	F	3-pyridyl	2-(aminosulfonyl)phenyl
662	F	3-pyridyl	2-(methylaminosulfonyl)phenyl
663	F	3-pyridyl	1-pyrrolidinocarbonyl
664	F	3-pyridyl	2-(methylsulfonyl)phenyl
665 666	F F	3-pyridyl	4-morpholino
		3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
667 668	F	3-pyridyl	4-morpholinocarbonyl
669	F F	3-pyridyl	2-methyl-1-imidazolyl
670	F	3-pyridyl	5-methyl-1-imidazolyl
671	F	3-pyridyl 2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
672	F	2-pyrimidyl 2-pyrimidyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
673	F	2-pyrimidyl	1-pyrrolidinocarbonyl
674	F	2-pyrimidyl	2-(methylsulfonyl)phenyl
675	F	2-pyrimidyl	4-morpholino
676	F	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
677	F	2-pyrimidyl	4-morpholinocarbonyl
678	F	2-pyrimidyl	2-methyl-1-imidazolyl
679	F	2-pyrimidyl	5-methyl-1-imidazolyl
680	F	2-pyrimidy1	2-methylsulfonyl-1-imidazolyl
681	F	5-pyrimidyl	2-(aminosulfonyl)phenyl
682	F	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
683	F	5-pyrimidyl	1-pyrrolidinocarbonyl
684	F	5-pyrimidyl	2-(methylsulfonyl)phenyl
685	F	5-pyrimidyl	4-morpholino
686	F	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
687	F	5-pyrimidyl	4-morpholinocarbonyl
688	F	5-pyrimidyl	2-methyl-1-imidazolyl
689	F	5-pyrimidyl	5-methyl-1-imidazolyl
690	<u>F</u>	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
691	F	2-Cl-phenyl	2-(aminosulfonyl)phenyl
692 693	F	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
694	F F	2-Cl-phenyl	1-pyrrolidinocarbonyl
695	r F	2-Cl-phenyl	2-(methylsulfonyl)phenyl
696	r F	2-Cl-phenyl 2-Cl-phenyl	4-morpholino
697	r F		2-(1'-CF3-tetrazol-2-yl)phenyl
698	F	2-Cl-phenyl 2-Cl-phenyl	4-morpholinocarbonyl 2-methyl-1-imidazolyl

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	699	F	2-Cl-phenyl	5-methyl-1-imidazolyl
	700	F	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	701	F	2-F-phenyl	2-(aminosulfonyl)phenyl
	702	F	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	703 704	F	2-F-phenyl	1-pyrrolidinocarbonyl
	704	F F	2-F-phenyl	2-(methylsulfonyl)phenyl
	705	F	2-F-phenyl 2-F-phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
	707	F	2-F-phenyl	4-morpholinocarbonyl
	708	F	2-F-phenyl	2-methyl-1-imidazolyl
	709	F	2-F-phenyl	5-methyl-1-imidazolyl
	710	F	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
•	711	F	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	712	F	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	71 3	F	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	714	F	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	715	F	2,6-diF-phenyl	4-morpholino
	716	F	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	717	F	2,6-diF-phenyl	4-morpholinocarbonyl
	718 719	F F	2,6-diF-phenyl	2-methyl-1-imidazolyl
	720	r F	2,6-diF-phenyl 2,6-diF-phenyl	5-methyl-1-imidazolyl
-	721	CO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl
	722	CO ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	723	CO ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	724	CO ₂ CH ₃	phenyl	
	725	-		2-(methylsulfonyl)phenyl
	723 726	CO ₂ CH ₃	phenyl	4-morpholino
	726 727	CO ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-y1)phenyl
		CO ₂ CH ₃	phenyl	4-morpholinocarbonyl
	728 720	CO ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
	729	CO ₂ CH ₃	phenyl	5-methyl-1-imidazolyl
_	730	CO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	731	CO ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	73 2	CO ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	733	CO ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	734	CO_2CH_3	2-pyridyl	2-(methylsulfonyl)phenyl
	735	CO_2CH_3	2-pyridyl	4-morpholino
	736	CO_2CH_3	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	737	CO_2CH_3	2-pyridyl	4-morpholinocarbonyl
	738	CO_2CH_3	2-pyridyl	2-methyl-1-imidazolyl
	739	CO ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
	740	CO ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
_	741	CO ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	742	CO ₂ CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	743	CO ₂ CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	744	CO ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	745	CO ₂ CH ₃	3-pyridyl	4-morpholino
	746	CO ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	747	CO ₂ CH ₃	3-pyridyl 3-pyridyl	4-morpholinocarbonyl
	748	CO ₂ CH ₃		2-methyl-1-imidazolyl
	749		3-pyridyl	_
	/49	CO ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl

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•	V 0 70120	40 <i>L</i>		
	75 0	CO ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	751	CO ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	752	CO ₂ CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	753	CO ₂ CH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	754	CO ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	75 5	CO ₂ CH ₃	2-pyrimidyl	4-morpholino
	756	CO ₂ CH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	757	CO ₂ CH ₃	2-pyrimidyl	4-morpholinocarbonyl
	758	CO ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	759	CO ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
	760	CO ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	761	CO ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	762	CO ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	763	CO ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	764	CO ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	765	CO ₂ CH ₃	5-pyrimidyl	4-morpholino
	7 6 6	CO ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	767	CO ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	76 8	CO ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	769	CO ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	770	CO ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
-	771	CO ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	772	CO ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	773	CO ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	774	CO ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	775	CO ₂ CH ₃	2-Cl-phenyl	4-morpholino
	776	CO ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	777	CO_2CH_3	2-Cl-phenyl	4-morpholinocarbonyl
	778	CO_2CH_3	2-Cl-phenyl	2-methyl-1-imidazolyl
	779	CO_2CH_3	2-Cl-phenyl	5-methyl-1-imidazolyl
_	780	CO ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	781	CO ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	782	CO_2CH_3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	78 3	CO_2CH_3	2-F-phenyl	1-pyrrolidinocarbonyl
	784	CO_2CH_3	2-F-phenyl	2-(methylsulfonyl)phenyl
	785	CO ₂ CH ₃	2-F-phenyl	4-morpholino
	786	CO ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	787	CO_2CH_3	2-F-phenyl	4-morpholinocarbonyl
	78 8	CO_2CH_3	2-F-phenyl	2-methyl-1-imidazolyl
	789	CO_2CH_3	2-F-phenyl	5-methyl-1-imidazolyl
_	790	CO ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	791	CO ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	792	CO ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	793	CO_2CH_3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	794	CO_2CH_3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	795	CO ₂ CH ₃	2,6-diF-phenyl	4-morpholino
	796	CO ₂ CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	7.97	CO ₂ CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
				_

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•	0 70.20			
	798	CO ₂ CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	799	CO ₂ CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	800	CO ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
•	801	CH ₂ OCH ₃	phenyl	2-(aminosulfonyl)phenyl
	802	CH ₂ OCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	803	CH ₂ OCH ₃	phenyl	1-pyrrolidinocarbonyl
	804	CH ₂ OCH ₃	phenyl	2-(methylsulfonyl)phenyl
	805	CH ₂ OCH ₃	phenyl	4-morpholino
	806	CH ₂ OCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	807	CH ₂ OCH ₃	phenyl	4-morpholinocarbonyl
	808	CH ₂ OCH ₃	phenyl	2-methyl-1-imidazolyl
	809	CH ₂ OCH ₃	phenyl	5-methyl-1-imidazolyl
	810	CH ₂ OCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
-	811	CH ₂ OCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	812	CH ₂ OCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	813	CH ₂ OCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	814	CH ₂ OCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	815	CH ₂ OCH ₃	2-pyridyl	4-morpholino
	816	CH ₂ OCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	817	CH ₂ OCH ₃	2-pyridyl	4-morpholinocarbonyl
	818	CH ₂ OCH ₃	2-pyridyl	2-methyl-1-imidazolyl
	819	CH ₂ OCH ₃	2-pyridyl	5-methyl-1-imidazolyl
	820	CH ₂ OCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
_	821	CH ₂ OCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	822	CH ₂ OCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	823	CH ₂ OCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	824	CH ₂ OCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	825	CH ₂ OCH ₃	3-pyridyl	4-morpholino
	826	CH ₂ OCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	827	CH ₂ OCH ₃	3-pyridyl	4-morpholinocarbonyl
	828	CH ₂ OCH ₃	3-pyridyl	2-methyl-1-imidazolyl
	829	CH ₂ OCH ₃	3-pyridyl	5-methyl-1-imidazolyl
	830	CH ₂ OCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
_	831	CH ₂ OCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	832	CH ₂ OCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	833	CH ₂ OCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	834	CH ₂ OCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	835	CH ₂ OCH ₃	2-pyrimidyl	4-morpholino
	836	CH ₂ OCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	837	CH ₂ OCH ₃	2-pyrimidyl	4-morpholinocarbonyl
	838	CH ₂ OCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	839	CH ₂ OCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
	840	CH ₂ OCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
_	841	CH ₂ OCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	842	_	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	843	CH ₂ OCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	844	CH ₂ OCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	845	CH ₂ OCH ₃	5-pyrimidyl	4-morpholino
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	846	CH ₂ OCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	847	CH ₂ OCH ₃	5-pyrimidyl	4-morpholinocarbonyl
	848	CH ₂ OCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	849	CH ₂ OCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	850	CH ₂ OCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	851	CH ₂ OCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	852	CH ₂ OCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	853	CH ₂ OCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	854	CH ₂ OCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	855	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholino
	856	CH ₂ OCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	857	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	858	CH ₂ OCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	859	CH ₂ OCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	860	CH ₂ OCH ₃	2-Cl-phenyl	
-	861	CH ₂ OCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	862	CH ₂ OCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	863	CH ₂ OCH ₃		2-(methylaminosulfonyl)phenyl
	864	CH ₂ OCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	865		2-F-phenyl	2-(methylsulfonyl)phenyl
	866	CH ₂ OCH ₃	2-F-phenyl	4-morpholino
	867	CH ₂ OCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
		CH ₂ OCH ₃	2-F-phenyl	4-morpholinocarbonyl
	868	CH ₂ OCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	869	CH ₂ OCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
_	870	CH ₂ OCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	871	CH ₂ OCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	872	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	873	CH ₂ OCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	874	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	875	CH ₂ OCH ₃	2,6-diF-phenyl	4-morpholino
	876	CH ₂ OCH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-y1)phenyl
	877	CH ₂ OCH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	878	CH ₂ OCH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	879	CH ₂ OCH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	880	CH ₂ OCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	881	CONH ₂	phenyl	2-(aminosulfonyl)phenyl
	882	CONH ₂	phenyl	2-(methylaminosulfonyl)phenyl
	883	CONH ₂	phenyl	1-pyrrolidinocarbonyl
	884	CONH ₂	phenyl	2-(methylsulfonyl)phenyl
	885	CONH ₂	phenyl	4-morpholino
	886	CONH ₂	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	887	CONH ₂	phenyl	4-morpholinocarbonyl
	888	CONH ₂	phenyl	2-methyl-1-imidazolyl
	889	CONH ₂	phenyl	5-methyl-1-imidazolyl
	890	CONH ₂	phenyl	2-methylsulfonyl-1-imidazolyl
_	891	CONH ₂	2-pyridyl	2-(aminosulfonyl)phenyl
	892	CONH ₂	2-pyridyl	2-(methylaminosulfonyl)phenyl
	893	CONH ₂	2-pyridyl	1-pyrrolidinocarbonyl
	-	2		+ bi-rorrarmocarponyr

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894	CONH ₂	2-pyridyl	2-(methylsulfonyl)phenyl
895	CONH ₂	2-pyridyl	4-morpholino
896	CONH ₂	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
897	CONH ₂	2-pyridyl	4-morpholinocarbonyl
898	CONH ₂	2-pyridyl "	2-methyl-1-imidazolyl
899	CONH ₂	2-pyridyl	5-methyl-1-imidazolyl
900	CONH ₂	2-pyridyl	2-methylsulfonyl-1-imidazolyl
901	CONH ₂	3-pyridyl	2-(aminosulfonyl)phenyl
902	CONH ₂	3-pyridyl	2-(methylaminosulfonyl)phenyl
903	CONH ₂	3-pyridyl	1-pyrrolidinocarbonyl
904	CONH ₂	3-pyridyl	2-(methylsulfonyl)phenyl
905	CONH ₂	3-pyridyl	4-morpholino
906	CONH ₂	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
907	CONH ₂	3-pyridyl	4-morpholinocarbonyl
908	CONH ₂	3-pyridyl	2-methyl-1-imidazolyl
909	CONH ₂	3-pyridyl	5-methyl-1-imidazolyl
910	CONH ₂	3-pyridyl	2-methylsulfonyl-1-imidazolyl
911	CONH ₂	2-pyrimidyl	2-(aminosulfonyl)phenyl
912	CONH ₂	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
91 3	CONH ₂	2-pyrimidyl	1-pyrrolidinocarbonyl
914	CONH ₂	2-pyrimidyl	2-(methylsulfonyl)phenyl
91 5	CONH ₂	2-pyrimidyl	4-morpholino
916	CONH ₂	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
917	CONH ₂	2-pyrimidyl	4-morpholinocarbonyl
918	CONH ₂	2-pyrimidyl	2-methyl-1-imidazolyl
919	CONH ₂	2-pyrimidyl	5-methyl-1-imidazolyl
920	CONH ₂	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
921	CONH ₂	5-pyrimidyl	2-(aminosulfonyl)phenyl
922	CONH ₂	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
92 3	CONH ₂	5-pyrimidyl	1-pyrrolidinocarbonyl
924	CONH ₂	5-pyrimidyl	2-(methylsulfonyl)phenyl
925	CONH ₂	5-pyrimidyl	4-morpholino
926	CONH ₂	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
927	CONH ₂	5-pyrimidyl	4-morpholinocarbonyl
92 8	CONH ₂	5-pyrimidyl	2-methyl-1-imidazolyl
929	CONH ₂	5-pyrimidyl	5-methyl-1-imidazolyl
930	CONH ₂	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
931	CONH ₂	2-Cl-phenyl	2-(aminosulfonyl)phenyl
932	CONH ₂	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
933	CONH ₂	2-Cl-phenyl	1-pyrrolidinocarbonyl
934	CONH ₂	2-Cl-phenyl	2-(methylsulfonyl)phenyl
935	CONH ₂	2-Cl-phenyl	4-morpholino
936	CONH ₂	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
937	CONH ₂	2-Cl-phenyl	4-morpholinocarbonyl
938	CONH ₂	2-Cl-phenyl	2-methyl-1-imidazolyl
939	CONH ₂	2-Cl-phenyl	5-methyl-1-imidazolyl
940	CONH ₂	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
941	CONH ₂	2-F-phenyl	2-(aminosulfonyl)phenyl

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942	CONH ₂	2-F-phenyl	2-(methylaminosulfonyl)phenyl
943	CONH ₂	2-F-phenyl	1-pyrrolidinocarbonyl
944	CONH ₂	2-F-phenyl	2-(methylsulfonyl)phenyl
945	$CONH_2$	2-F-phenyl	4-morpholino
946	CONH ₂	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
947	CONH ₂	2-F-phenyl	4-morpholinocarbonyl
948	CONH ₂	2-F-phenyl	2-methyl-1-imidazolyl
949	CONH ₂	2-F-phenyl	5-methyl-1-imidazolyl
950	CONH ₂	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
951	CONH ₂	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
952	CONH ₂	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
953	$CONH_2$	2,6-diF-phenyl	1-pyrrolidinocarbonyl
954	CONH ₂	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
9 5 5	CONH ₂	2,6-diF-phenyl	4-morpholino
956	CONH ₂	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
957	CONH ₂	2,6-diF-phenyl	4-morpholinocarbonyl
958	CONH ₂	2,6-diF-phenyl	2-methyl-1-imidazolyl
959	CONH ₂	2,6-diF-phenyl	5-methyl-1-imidazolyl
960	CONH ₂	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl

Table 5

For each example, DE is:

- (A) pyridin-4-yl-CH₂,
 (B) 2-amino-pyrimidin-4-yl,
 (C) 6-amino-pyridin-2-yl,
 (D) 3-amidino-4-F-phenyl, or
 (E) N-amidino-3-piperidinyl.

Ex #	A	В
1	phenyl	2-(aminosulfonyl)phenyl
2	phenyl	2-(methylaminosulfonyl)phenyl
3	phenyl	1-pyrrolidinocarbonyl
4	phenyl	2-(methylsulfonyl)phenyl
5	phenyl	4-morpholino
6	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
7	phenyl	4-morpholinocarbonyl
8	phenyl	2-methyl-1-imidazolyl
9	phenyl	5-methyl-1-imidazolyl
10	phenyl	2-methylsulfonyl-1-imidazolyl
11	2-pyridyl	2-(aminosulfonyl)phenyl
12	2-pyridyl	2-(methylaminosulfonyl)phenyl
13	2-pyridyl	1-pyrrolidinocarbonyl
14	2-pyridyl	2-(methylsulfonyl)phenyl
15	2-pyrid y l	4-morpholino
16	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
17	2-pyridyl	4-morpholinocarbonyl
18	2-pyridyl	2-methyl-1-imidazolyl
19	2-pyridyl	5-methyl-1-imidazolyl
20	2-pyridyl	2-methylsulfonyl-1-imidazolyl
21	3-pyridyl	2-(aminosulfonyl)phenyl
22	3-pyridyl	2-(methylaminosulfonyl)phenyl
23	3-pyridyl	1-pyrrolidinocarbonyl
24	3-pyridyl	2-(methylsulfonyl)phenyl
25	3-pyridyl	4-morpholino
26	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
27	3-pyridyl	4-morpholinocarbonyl
28	3-pyridyl	2-methyl-1-imidazolyl
29	3-pyridyl	5-methyl-1-imidazolyl
30	3-pyridyl	2-methylsulfonyl-1-imidazolyl
31	2-pyrimidyl	2-(aminosulfonyl)phenyl
32	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
33	2-pyrimidyl	1-pyrrolidinocarbonyl
34	2-pyrimidyl	2-(methylsulfonyl)phenyl

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35	2-pyrimidyl	4-morpholino
36	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
37	2-pyrimidyl	4-morpholinocarbonyl
38	2-pyrimidyl	2-methyl-1-imidazolyl
39	2-pyrimidyl	5-methyl-1-imidazolyl
40	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
41	5-pyrimidyl	2-(aminosulfonyl)phenyl
42	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
43	5-pyrimidyl	1-pyrrolidinocarbonyl
44	5-pyrimidyl	2-(methylsulfonyl)phenyl
45	5-pyrimidyl	4-morpholino
46	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
47	5-pyrimidyl	4-morpholinocarbonyl
48	5-pyrimidyl	2-methyl-1-imidazolyl
49	5-pyrimidyl	5-methyl-1-imidazolyl
50	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
51	2-Cl-phenyl	2-(aminosulfonyl)phenyl
52	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
53	2-Cl-phenyl	1-pyrrolidinocarbonyl
54	2-Cl-phenyl	2-(methylsulfonyl)phenyl
55	2-Cl-phenyl	4-morpholino
56	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
57	2-Cl-phenyl	4-morpholinocarbonyl
58	2-Cl-phenyl	2-methyl-1-imidazolyl
59	2-Cl-phenyl	5-methyl-1-imidazolyl
60	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
61 62	2-F-phenyl	2-(aminosulfonyl)phenyl
63	2-F-phenyl	2-(methylaminosulfonyl)phenyl
64	2-F-phenyl	1-pyrrolidinocarbonyl
65	2-F-phenyl 2-F-phenyl	2-(methylsulfonyl)phenyl
66	2-F-phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
67	2-F-phenyl	
68	2-F-phenyl	4-morpholinocarbonyl 2-methyl-1-imidazolyl
69	2-F-phenyl	5-methyl-1-imidazolyl
70	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
71	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
72	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
73	2,6-diF-phenyl	1-pyrrolidinocarbonyl
74	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
75	2,6-diF-phenyl	4-morpholino
76	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
77	2,6-diF-phenyl	4-morpholinocarbonyl
78	2;6-diF-phenyl	2-methyl-1-imidazolyl
79	2,6-diF-phenyl	5-methyl-1-imidazolyl
80	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl

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$$R^{1a}$$
 NH_2
 NH_2
 NH_2
 R^{1a}
 R^{1a}

tt

C(=NH)NH₂

uu

C(O)NH₂

Ex #	Rla	A	B
1	CH_3	phenyl	2-(aminosulfonyl)phenyl
2	CH_3	phenyl	2-(methylaminosulfonyl)phenyl
3	CH_3	phenyl	1-pyrrolidinocarbonyl
4	CH ₃	phenyl	2-(methylsulfonyl)phenyl
5	CH ₃	phenyl	4-morpholino
6	CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
7	CH_3	phenyl	4-morpholinocarbonyl
8	CH ₃	phenyl	2-methyl-1-imidazolyl
9	CH_3	phenyl	5-methyl-1-imidazolyl
10	CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
11	CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
12	CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
13	CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
14	CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
1 5	CH ₃	2-pyridyl	4-morpholino
16	CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
17	CH ₃	2-pyridyl	4-morpholinocarbonyl
18	CH ₃	2-pyridyl	2-methyl-1-imidazolyl
19	CH ₃	2-pyridyl	5-methyl-1-imidazolyl
20	CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
21	CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
22	CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
23	CH ₃	. 3-pyridyl	1-pyrrolidinocarbonyl
24	CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
25	CH ₃	3-pyridyl	4-morpholino
26	CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl

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29 CH3 3-pyridyl 5-methyl-1-imidazolyl 30 CH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 31 CH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 32 CH3 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 33 CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 34 CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 35 CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 36 CH3 2-pyrimidyl 2-(methylsulfonyl-1-imidazolyl 37 CH3 2-pyrimidyl 2-methyl-1-imidazolyl 38 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 39 CH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 40 CH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 41 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 42 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 2-(methylsulfonyl-imidazolyl 46 CH3 5-pyr
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CH3
CH3
32 CH3 2-pyrimidyl 2-(methylaminosulfonyl) phenyl 33 CH3 2-pyrimidyl 1-pyrrolidinocarbonyl 34 CH3 2-pyrimidyl 2-(methylsulfonyl) phenyl 35 CH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl) phenyl 36 CH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl) phenyl 37 CH3 2-pyrimidyl 2-methyl-1-imidazolyl 38 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 40 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 41 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 42 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 43 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 45 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 46 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 50 CH3 <
33 CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 35 CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 36 CH ₃ 2-pyrimidyl 4-morpholino 37 CH ₃ 2-pyrimidyl 4-morpholinocarbonyl 38 CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 39 CH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 40 CH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 41 CH ₃ 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 42 CH ₃ 5-pyrimidyl 2-(methylsulfonyl)phenyl 43 CH ₃ 5-pyrimidyl 1-pyrrolidinocarbonyl 44 CH ₃ 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH ₃ 5-pyrimidyl 2-(methylsulfonyl)phenyl 46 CH ₃ 5-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 47 CH ₃ 5-pyrimidyl 2-methyl-1-imidazolyl 48 CH ₃ 5-pyrimidyl 2-methyl-1-imidazolyl 50 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 52 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 53 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 54 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 58 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 59 CH ₃ 2-Cl-phenyl 3-(methylsulfonyl)phenyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 52 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 53 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl
34 CH3 2-pyrimidyl 2-(methylsulfonyl) phenyl 35 CH3 2-pyrimidyl 4-morpholino 36 CH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl) phenyl 37 CH3 2-pyrimidyl 4-morpholinocarbonyl 38 CH3 2-pyrimidyl 2-methyl-1-imidazolyl 39 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 40 CH3 2-pyrimidyl 2-(aminosulfonyl) phenyl 41 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 42 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 43 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl) phenyl 45 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 46 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl) phenyl 52 CH3 2-Cl-phenyl <td< td=""></td<>
35 CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 37 CH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 38 CH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 39 CH ₃ 2-pyrimidyl 2-methylsulfonyl)phenyl 40 CH ₃ 2-pyrimidyl 2-methylsulfonyl)phenyl 41 CH ₃ 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 42 CH ₃ 5-pyrimidyl 2-(methylsulfonyl)phenyl 43 CH ₃ 5-pyrimidyl 2-(methylsulfonyl)phenyl 44 CH ₃ 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH ₃ 5-pyrimidyl 2-(methylsulfonyl)phenyl 46 CH ₃ 5-pyrimidyl 4-morpholino 47 CH ₃ 5-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 48 CH ₃ 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 50 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 52 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 53 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 54 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 56 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl
37 CH3 2-pyrimidyl 4-morpholinocarbonyl 38 CH3 2-pyrimidyl 2-methyl-1-imidazolyl 39 CH3 2-pyrimidyl 5-methyl-1-imidazolyl 40 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 41 CH3 5-pyrimidyl 2-(aminosulfonyl)phenyl 42 CH3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 43 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 47 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 53 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 58 CH3 2-Cl-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 59 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 3-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 52 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 53 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 54 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 55 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 56 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl
37 CH3 2-pyrimidyl 2-methyl-1-imidazolyl 38 CH3 2-pyrimidyl 2-methyl-1-imidazolyl 39 CH3 2-pyrimidyl 5-methyl-1-imidazolyl 40 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 41 CH3 5-pyrimidyl 2-(aminosulfonyl)phenyl 42 CH3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 43 CH3 5-pyrimidyl 1-pyrrolidinocarbonyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 46 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 53 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 4-morpholino 56 CH3 2-Cl-phenyl 4-morpholino 56 CH3 2-Cl-phenyl 4-morpholino 57 CH3 2-Cl-phenyl 4-morpholino 58 CH3 2-Cl-phenyl 4-morpholinocarbonyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 52 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 53 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 54 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 55 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 56 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 57 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 58 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl
38 CH3 2-pyrimidyl 2-methyl-1-imidazolyl 39 CH3 2-pyrimidyl 5-methyl-1-imidazolyl 40 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 41 CH3 5-pyrimidyl 2-(aminosulfonyl)phenyl 42 CH3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 43 CH3 5-pyrimidyl 1-pyrrolidinocarbonyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 46 CH3 5-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 47 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylsulfonyl-1)phenyl 53 CH3 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 58 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 59 CH3 2-Cl-phenyl 3-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 51 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 52 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 53 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 54 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl 55 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl 57 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl
CH3 2-pyrimidyl 2-methyl-1-imidazolyl CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl CH3 5-pyrimidyl 2-(aminosulfonyl)phenyl CH3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl CH3 5-pyrimidyl 1-pyrrolidinocarbonyl CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl CH3 5-pyrimidyl 4-morpholino CH3 5-pyrimidyl 2-methyl-1-imidazolyl CH3 5-pyrimidyl 2-methyl-1-imidazolyl CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl CH3 2-Cl-phenyl 3-methyl-1-imidazolyl CH3 2-Cl-phenyl 3-methyl-1-imidazolyl CH3 2-Cl-phenyl 3-methyl-1-imidazolyl CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
40 CH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 41 CH3 5-pyrimidyl 2-(aminosulfonyl)phenyl 42 CH3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 43 CH3 5-pyrimidyl 1-pyrrolidinocarbonyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 4-morpholinocarbonyl 47 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 53 CH3 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 58 CH3 2-Cl-phenyl 4-morpholino 59 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 51 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 52 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 53 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 54 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 55 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 56 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl
41 CH3 5-pyrimidyl 2-(aminosulfonyl)phenyl 42 CH3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 43 CH3 5-pyrimidyl 1-pyrrolidinocarbonyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 4-morpholinocarbonyl 47 CH3 5-pyrimidyl 4-morpholinocarbonyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 51 CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylsulfonyl-)phenyl 53 CH3 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH3 2-Cl-phenyl 4-morpholino 58 CH3 2-Cl-phenyl 4-morpholinocarbonyl 58 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
42 CH3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl 43 CH3 5-pyrimidyl 1-pyrrolidinocarbonyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 47 CH3 5-pyrimidyl 4-morpholinocarbonyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH3 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH3 2-Cl-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 58 CH3 2-Cl-phenyl 2-morpholinocarbonyl 59 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 50 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
CH3 5-pyrimidyl 1-pyrrolidinocarbonyl 44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 47 CH3 5-pyrimidyl 4-morpholinocarbonyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 53 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 4-morpholino 56 CH3 2-Cl-phenyl 4-morpholinocarbonyl 57 CH3 2-Cl-phenyl 4-morpholinocarbonyl 58 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
44 CH3 5-pyrimidyl 2-(methylsulfonyl)phenyl 45 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 47 CH3 5-pyrimidyl 4-morpholinocarbonyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH3 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH3 2-Cl-phenyl 4-morpholino 58 CH3 2-Cl-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 59 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
45 CH3 5-pyrimidyl 4-morpholino 46 CH3 5-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 47 CH3 5-pyrimidyl 4-morpholinocarbonyl 48 CH3 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH3 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH3 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH3 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH3 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH3 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH3 2-Cl-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 57 CH3 2-Cl-phenyl 4-morpholinocarbonyl 58 CH3 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH3 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH3 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
46 CH ₃ 5-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 47 CH ₃ 5-pyrimidyl 4-morpholinocarbonyl 48 CH ₃ 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH ₃ 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH ₃ 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH ₃ 2-Cl-phenyl 2-(f'-CF ₃ -tetrazol-2-yl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
47 CH ₃ 5-pyrimidyl 4-morpholinocarbonyl 48 CH ₃ 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH ₃ 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH ₃ 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholino 56 CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
48 CH ₃ 5-pyrimidyl 2-methyl-1-imidazolyl 49 CH ₃ 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH ₃ 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 4-morpholino 56 CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
49 CH ₃ 5-pyrimidyl 5-methyl-1-imidazolyl 50 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH ₃ 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH ₃ 2-Cl-phenyl 4-morpholino 56 CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
50 CH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 51 CH ₃ 2-Cl-phenyl 2-(aminosulfonyl)phenyl 52 CH ₃ 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl 53 CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl 54 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 56 CH ₃ 2-Cl-phenyl 4-morpholino 56 CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
CH ₃ 2-Cl-phenyl 2-(aminosulfonyl)phenyl CH ₃ 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl CH ₃ 2-Cl-phenyl 4-morpholino CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
CH ₃ 2-Cl-phenyl 2-(methylaminosulfonyl)phenyl CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl CH ₃ 2-Cl-phenyl 4-morpholino CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
CH ₃ 2-Cl-phenyl 1-pyrrolidinocarbonyl CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl CH ₃ 2-Cl-phenyl 4-morpholino CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
CH ₃ 2-Cl-phenyl 2-(methylsulfonyl)phenyl 55 CH ₃ 2-Cl-phenyl 4-morpholino 56 CH ₃ 2-Cl-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
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57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
57 CH ₃ 2-Cl-phenyl 4-morpholinocarbonyl 58 CH ₃ 2-Cl-phenyl 2-methyl-1-imidazolyl 59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
59 CH ₃ 2-Cl-phenyl 5-methyl-1-imidazolyl 60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
60 CH ₃ 2-Cl-phenyl 2-methylsulfonyl-1-imidazolyl
61 CH ₃ 2-F-phenyl 2-(aminosulfonyl)phenyl
62 CH ₃ 2-F-phenyl 2-(methylaminosulfonyl)phenyl
63 CH ₃ 2-F-phenyl 1-pyrrolidinocarbonyl
64 CH ₃ 2-F-phenyl 2-(methylsulfonyl)phenyl
65 CH ₃ 2-F-phenyl 4-morpholino
66 CH ₃ 2-F-phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl
67 CH ₃ 2-F-phenyl 4-morpholinocarbonyl
68 CH ₃ 2-F-phenyl 2-methyl-1-imidazolyl
69 CH ₃ 2-F-phenyl 5-methyl-1-imidazolyl
70 CH ₃ 2-F-phenyl 2-methylsulfonyl-1-imidazolyl
71 CH ₃ 2,6-diF-phenyl 2-(aminosulfonyl)phenyl
72 CH ₃ 2,6-diF-phenyl 2-(methylaminosulfonyl)phenyl
73 CH ₃ 2,6-diF-phenyl 1-pyrrolidinocarbonyl
74 CH ₃ 2,6-dif-phenyl 2-(methylsulfonyl)phenyl

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The children of the children	75	CH ₃	2,6-diF-phenyl	4-morpholino
78	76	CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
The Chi	7 7	CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
80 CH3 2,6-diF-phenyl 2-methylsulfonyl-1-imidazolyl 81 CH2CH3 phenyl 2-(aminosulfonyl)phenyl 82 CH2CH3 phenyl 2-(methylaminosulfonyl)phenyl 83 CH2CH3 phenyl 2-(methylsulfonyl)phenyl 84 CH2CH3 phenyl 2-(methylsulfonyl)phenyl 85 CH2CH3 phenyl 2-(methylsulfonyl)phenyl 86 CH2CH3 phenyl 2-(methylsulfonyl)phenyl 87 CH2CH3 phenyl 2-methyl-1-imidazolyl 88 CH2CH3 phenyl 2-methyl-1-imidazolyl 89 CH2CH3 phenyl 2-methyl-1-imidazolyl 90 CH2CH3 2-pyridyl 2-(methylsulfonyl)phenyl 91 CH2CH3 2-pyridyl 2-(methylsulfonyl)phenyl 92 CH2CH3 2-pyridyl 2-(methylsulfonyl)phenyl 93 CH2CH3 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH2CH3 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH2CH3 2-pyridyl <	78	CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
81 CH ₂ CH ₃ phenyl 2-(aminosulfonyl)phenyl 82 CH ₂ CH ₃ phenyl 2-(methylaminosulfonyl)phenyl 83 CH ₂ CH ₃ phenyl 1-pyrrolidinocarbonyl 84 CH ₂ CH ₃ phenyl 2-(methylsulfonyl)phenyl 85 CH ₂ CH ₃ phenyl 2-(methylsulfonyl)phenyl 86 CH ₂ CH ₃ phenyl 4-morpholino 86 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 87 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 88 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl)phenyl 91 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 98 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phen	79	CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
82 CH ₂ CH ₃ phenyl 2-(methylaminosulfonyl)phenyl 83 CH ₂ CH ₃ phenyl 1-pyrrolidinocarbonyl 84 CH ₂ CH ₃ phenyl 2-(methylsulfonyl)phenyl 85 CH ₂ CH ₃ phenyl 4-morpholino 86 CH ₂ CH ₃ phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 87 CH ₂ CH ₃ phenyl 4-morpholinocarbonyl 88 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 89 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 91 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 103 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 104 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 105 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 106 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 101 CH ₂ CH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 102 CH ₂ CH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 103 CH ₂ CH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 104 CH ₂ CH ₃ 2-pyrimidyl 2-methyl-1-imidazol	80	CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
83 CH ₂ CH ₃ phenyl 2-(methylsulfonyl)phenyl 85 CH ₂ CH ₃ phenyl 2-(methylsulfonyl)phenyl 86 CH ₂ CH ₃ phenyl 4-morpholino 87 CH ₂ CH ₃ phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 88 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 89 CH ₂ CH ₃ phenyl 2-methylsulfonyl)phenyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl)phenyl 91 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 4-morpholino 96 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 100 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 102 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 103 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 104 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 105 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 106 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(m	81	CH ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
84 CH ₂ CH ₃ phenyl 2-(methylsulfonyl)phenyl 85 CH ₂ CH ₃ phenyl 4-morpholino 86 CH ₂ CH ₃ phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 87 CH ₂ CH ₃ phenyl 4-morpholinocarbonyl 88 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 89 CH ₂ CH ₃ phenyl 5-methyl-1-imidazolyl 90 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl-1-imidazolyl) 91 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 98 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl)phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phe	82	CH ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
85 CH ₂ CH ₃ phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 86 CH ₂ CH ₃ phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 87 CH ₂ CH ₃ phenyl 4-morpholinocarbonyl 88 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 89 CH ₂ CH ₃ phenyl 5-methyl-1-imidazolyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 91 CH ₂ CH ₃ 2-pyridyl 2-(methylaminosulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 102 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 103 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 104 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 105 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methy	83	CH ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
86 CH ₂ CH ₃ phenyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 87 CH ₂ CH ₃ phenyl 4-morpholinocarbonyl 88 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 91 CH ₂ CH ₃ 2-pyridyl 2-(methylaminosulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 102 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 103 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 104 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 105 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2	84	CH ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
87 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 88 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 91 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl) phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl) phenyl 93 CH ₂ CH ₃ 2-pyridyl 1-pyrrolidinocarbonyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl) phenyl 95 CH ₂ CH ₃ 2-pyridyl 4-morpholino 96 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl) phenyl 97 CH ₂ CH ₃ 2-pyridyl 4-morpholinocarbonyl 98 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl) 99 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl 101 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl) 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 105 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 100 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 105 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl) phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfo	85	CH ₂ CH ₃	phenyl	4-morpholino
88 CH ₂ CH ₃ phenyl 5-methyl-1-imidazolyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 91 CH ₂ CH ₃ 2-pyridyl 2-(methylaminosulfonyl) phenyl 92 CH ₂ CH ₃ 2-pyridyl 1-pyrrolidinocarbonyl 93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl) phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl) phenyl 95 CH ₂ CH ₃ 2-pyridyl 4-morpholino 96 CH ₂ CH ₃ 2-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl) phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 100 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 105 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methyls	86	CH ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
89 CH ₂ CH ₃ phenyl 2-methyl-1-imidazolyl 90 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 91 CH ₂ CH ₃ 2-pyridyl 2-(aminosulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylaminosulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 1-pyrrolidinocarbonyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 4-morpholino 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	87	CH_2CH_3	phenyl	4-morpholinocarbonyl
90 CH ₂ CH ₃ phenyl 2-methylsulfonyl-1-imidazolyl 91 CH ₂ CH ₃ 2-pyridyl 2-(aminosulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylaminosulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 1-pyrrolidinocarbonyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 4-morpholino 96 CH ₂ CH ₃ 2-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl)phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	88	CH ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
91 CH ₂ CH ₃ 2-pyridyl 2-(aminosulfonyl)phenyl 92 CH ₂ CH ₃ 2-pyridyl 2-(methylaminosulfonyl)phenyl 93 CH ₂ CH ₃ 2-pyridyl 1-pyrrolidinocarbonyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-(aminosulfonyl)phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	89	CH_2CH_3	phenyl	5-methyl-1-imidazolyl
92 CH2CH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 93 CH2CH3 2-pyridyl 1-pyrrolidinocarbonyl 94 CH2CH3 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH2CH3 2-pyridyl 4-morpholino 96 CH2CH3 2-pyridyl 2-methyl-1-imidazolyl 97 CH2CH3 2-pyridyl 2-methylsulfonyl)phenyl 98 CH2CH3 2-pyridyl 2-methylsulfonyl)phenyl 100 CH2CH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH2CH3 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH2CH3 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH2CH3 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH2CH3 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH2CH3 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH2CH3 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH2CH3 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH2CH3 3-pyridyl 2-methyl-1-imidazolyl 109 CH2CH3 3-pyridyl 2-methyl-1-imidazolyl 100 CH2CH3 3-pyridyl 2-methyl-1-imidazolyl 110 CH2CH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH2CH3 2-pyrimidyl 1-pyrrolidinocarbonyl 113 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH2CH3 2-pyrimidyl 1-pyrrolidinocarbonyl 115 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 110 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 111 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH2CH3 2-pyrimidyl 2-(methylsulfonyl)phenyl	90	CH ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
93 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 4-morpholino 96 CH ₂ CH ₃ 2-pyridyl 4-morpholinocarbonyl 97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	91	CH ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
94 CH ₂ CH ₃ 2-pyridyl 2-(methylsulfonyl)phenyl 95 CH ₂ CH ₃ 2-pyridyl 4-morpholino 96 CH ₂ CH ₃ 2-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 4-morpholinocarbonyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	92	CH ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
95 CH ₂ CH ₃ 2-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 96 CH ₂ CH ₃ 2-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 4-morpholinocarbonyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(aminosulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 112 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	93	CH ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
96 CH ₂ CH ₃ 2-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 97 CH ₂ CH ₃ 2-pyridyl 4-morpholinocarbonyl 98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-(aminosulfonyl)phenyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	94	CH ₂ CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
97 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 98 CH ₂ CH ₃ 2-pyridyl 5-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl) phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl) phenyl 106 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl) phenyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl) phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 110 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl) phenyl	95	CH_2CH_3	2-pyridyl	4-morpholino
98 CH ₂ CH ₃ 2-pyridyl 2-methyl-1-imidazolyl 99 CH ₂ CH ₃ 2-pyridyl 5-methyl-1-imidazolyl 100 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(aminosulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl	96	CH ₂ CH ₃	2-pyridyl	
99 CH ₂ CH ₃ 2-pyridyl 5-methyl-1-imidazolyl 100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(aminosulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 106 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl	97	CH ₂ CH ₃	2-pyridyl	4-morpholinocarbonyl
100 CH ₂ CH ₃ 2-pyridyl 2-methylsulfonyl-1-imidazolyl 101 CH ₂ CH ₃ 3-pyridyl 2-(aminosulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl		CH ₂ CH ₃	2-pyridyl	2-methyl-1-imidazolyl
101 CH ₂ CH ₃ 3-pyridyl 2-(aminosulfonyl)phenyl 102 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl		CH ₂ CH ₃		5-methyl-1-imidazolyl
102 CH ₂ CH ₃ 3-pyridyl 2-(methylaminosulfonyl)phenyl 103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 107 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 108 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 113 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl		CH ₂ CH ₃	2-pyridyl	
103 CH ₂ CH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 107 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl		CH ₂ CH ₃	3-pyridyl	
104 CH ₂ CH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 105 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl	•	CH ₂ CH ₃	- -	
105 CH ₂ CH ₃ 3-pyridyl 4-morpholino 106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				_
106 CH ₂ CH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 107 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 116 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 117 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 118 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 119 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				
107 CH ₂ CH ₃ 3-pyridyl 4-morpholinocarbonyl 108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl		-		-
108 CH ₂ CH ₃ 3-pyridyl 2-methyl-1-imidazolyl 109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				_
109 CH ₂ CH ₃ 3-pyridyl 5-methyl-1-imidazolyl 110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl		2 2		-
110 CH ₂ CH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				——————————————————————————————————————
111 CH ₂ CH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl			-	-
112 CH ₂ CH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				
113 CH ₂ CH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				_ · · · -
114 CH ₂ CH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 115 CH ₂ CH ₃ 2-pyrimidyl 4-morpholino 116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				
115 CH_2CH_3 2-pyrimidyl 4-morpholino 116 CH_2CH_3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl				-
116 CH ₂ CH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl				
11/ CH ₂ CH ₃ 2-pyrimidyl 4-morpholinocarbonyl				_
				_
118 CH ₂ CH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl				
119 CH ₂ CH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl				_
120 CH ₂ CH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl				
121 CH ₂ CH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl				
122 CH_2CH_3 5-pyrimidyl 2-(methylaminosulfonyl)phenyl	122	CH ₂ CH ₃	5-pyrımıdyl	∠-(metnyiaminosulfonyl)phenyl

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***	123	CH ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	124	CH ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	125	CH ₂ CH ₃	5-pyrimidyl	4-morpholino
	126	CH ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	127	CH ₂ CH ₃	5-pyrimidyl 5-pyrimidyl	4-morpholinocarbonyl
	128	CH ₂ CH ₃	5-pyrimidyl	
	129	CH ₂ CH ₃	5-pyrimidyl 5-pyrimidyl	2-methyl-1-imidazolyl
	130	CH ₂ CH ₃ CH ₂ CH ₃	_ =	5-methyl-1-imidazolyl
-	131		5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	131	CH ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	133	CH ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
		CH ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	134	CH ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	135	CH ₂ CH ₃	2-Cl-phenyl	4-morpholino
	136	CH ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	137	CH ₂ CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	138	CH ₂ CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	139	CH ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
_	140	CH ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	141	CH ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	142	CH ₂ CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	143	CH ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	144	CH ₂ CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	145	CH_2CH_3	2-F-phenyl	4-morpholino
	146	CH ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	147	CH ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
	148	CH ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	149	CH ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
_	150	CH ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	151	CH_2CH_3	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	152	CH ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	15 3	CH_2CH_3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	154	CH_2CH_3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	15 5	CH_2CH_3	2,6-diF-phenyl	4-morpholino
	156	CH_2CH_3	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	157	CH ₂ CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	158	CH_2CH_3	2,6-diF-phenyl	2-methyl-1-imidazolyl
	1 59	CH_2CH_3	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	160	CH ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	161	CF ₃	phenyl	2-(aminosulfonyl)phenyl
	162	CF ₃	phenyl	2-(methylaminosulfonyl)phenyl
	163	CF ₃	phenyl	1-pyrrolidinocarbonyl
	164	CF ₃	phenyl	2-(methylsulfonyl)phenyl
	165	CF ₃	phenyl	4-morpholino
	166	\mathtt{CF}_3	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	167	CF ₃	phenyl	4-morpholinocarbonyl
	168	CF ₃	phenyl	2-methyl-1-imidazolyl
	169	CF ₃	phenyl	5-methyl-1-imidazolyl
	170	CF ₃	phenyl	2-methylsulfonyl-1-imidazolvl

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-	171	CF ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	172	\mathtt{CF}_3	2-pyridyl	2-(methylaminosulfonyl)phenyl
	173	CF_3	2-pyridyl	1-pyrrolidinocarbonyl
	174	CF ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	175	CF_3	2-pyridyl	4-morpholino
	176	CF ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	177	CF ₃	2-pyridyl	4-morpholinocarbonyl
	178	CF ₃	2-pyridyl	2-methyl-1-imidazolyl
	179	CF ₃	2-pyri dy l	5-methyl-1-imidazolyl
_	180	CF ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	181	CF ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	182	CF ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	183	CF ₃	3-pyridyl	1-pyrrolidinocarbonyl
	184	CF_3	3-pyridyl	2-(methylsulfonyl)phenyl
	185	CF_3	3-pyridyl	4-morpholino
	186	CF ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	187	CF_3	3-pyridyl	4-morpholinocarbonyl
	188	CF_3	3-pyridyl	2-methyl-1-imidazolyl
	189	\mathtt{CF}_3	3-pyridyl	5-methyl-1-imidazolyl
	190	\mathtt{CF}_3	3-pyridyl	2-methylsulfonyl-1-imidazolyl
_	191	CF ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	192	\mathtt{CF}_3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	193	CF_3	2-pyrimidyl	1-pyrrolidinocarbonyl
	194	CF_3	2-pyrimidyl	2-(methylsulfonyl)phenyl
	195	CF_3	2-pyrimidyl	4-morpholino
	196	CF ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	197	\mathtt{CF}_3	2-pyrimidyl	4-morpholinocarbonyl
	198	CF ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	199	CF_3	2-pyrimidyl	5-methyl-1-imidazolyl
_	200	CF ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	201	CF ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	202	CF_3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	203	\mathtt{CF}_3	5-pyrimidyl	1-pyrrolidinocarbonyl
	204	\mathtt{CF}_3	5-pyrimidyl	2-(methylsulfonyl)phenyl
	205	CF_3	5-pyrimidyl	4-morpholino
	206	CF_3	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	207	CF_3	5-pyrimidyl	4-morpholinocarbonyl
	208	CF_3	5-pyrimidyl	2-methyl-1-imidazolyl
	209	CF ₃	5-pyrimidyl	5-methyl-1-imidazolyl
_	210	CF ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	211	CF ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	212	CF ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	213	CF ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	214	CF ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	215	CF ₃	2-Cl-phenyl	4-morpholino
	216	CF_3	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	217	CF ₃	2-Cl-phenyl	4-morpholinocarbonyl
	218	CF ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
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	219	CF_3	2-Cl-phenyl	5-methyl-1-imidazolyl
	220	CF_3	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	221	CF ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	222	\mathtt{CF}_3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	223	CF ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	224	\mathtt{CF}_3	2-F-phenyl	2-(methylsulfonyl)phenyl
	225	CF ₃	2-F-phenyl	4-morpholino
	226	CF ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	227	CF ₃	2-F-phenyl	4-morpholinocarbonyl
	228	CF_3	2-F-phenyl	2-methyl-1-imidazolyl
	229	\mathtt{CF}_3	2-F-phenyl	5-methyl-1-imidazolyl
	230	\mathtt{CF}_3	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	231	CF ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	232	CF ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	233	CF ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	234	CF ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	235	\mathtt{CF}_3	2,6-diF-phenyl	4-morpholino
	236	CF ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	237	CF ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	238	CF ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	239	CF ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	240	CF ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
•	241	SCH ₃	phenyl	2-(aminosulfonyl)phenyl
	242	SCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	243	SCH ₃	phenyl	1-pyrrolidinocarbonyl
	244	SCH_3	phenyl	2-(methylsulfonyl)phenyl
	245	SCH_3	phenyl	4-morpholino
	246	SCH_3	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	247	SCH_3	phenyl	4-morpholinocarbonyl
	248	SCH_3	phenyl	2-methyl-1-imidazolyl
	249	SCH_3	phenyl	5-methyl-1-imidazolyl
_	250	SCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	251	SCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	25 2	SCH_3	2-pyridyl	2-(methylaminosulfonyl)phenyl
	25 3	SCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	254	SCH_3	2-pyridyl	2-(methylsulfonyl)phenyl
	255	SCH_3	2-pyridyl	4-morpholino
	256	SCH_3	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	257	SCH ₃	2-pyridyl	4-morpholinocarbonyl
	258	SCH_3	2-pyridyl	2-methyl-1-imidazolyl
	259	SCH ₃	2-pyridyl	5-methyl-1-imidazolyl
_	260	SCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	261	SCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	262	SCH_3	3-pyridyl	2-(methylaminosulfonyl)phenyl
	263	SCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	264	SCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	265	SCH ₃	3-pyridyl	4-morpholino
-	266	SCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl

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	267	SCH ₃	3-pyridyl	4-morpholinocarbonyl
•		3-pyridyl	2-methyl-1-imidazolyl	
<i>-</i>		3-pyridyl	5-methyl-1-imidazolyl	
	270	SCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
-	271	SCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	272	SCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	273	SCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	274	SCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	275	SCH3	2-pyrimidyl	4-morpholino
	276	SCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	277	SCH ₃	2-pyrimidyl	4-morpholinocarbonyl
	278	SCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	279	SCH_3	2-pyrimidyl	5-methyl-1-imidazolyl
	280	SCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
_	281	SCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	282	SCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	283	SCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	284	SCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	285	SCH ₃	5-pyrimidyl	4-morpholino
	286	SCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	287	SCH ₃	5-pyrimidyl	4-morpholinocarbonyl
	288	SCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	289	SCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	290	SCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
-	291	SCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	292	SCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	293	SCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	294	SCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	295	SCH ₃	2-Cl-phenyl	4-morpholino
	296	SCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	297	SCH_3	2-Cl-phenyl	4-morpholinocarbonyl
	298	SCH_3	2-Cl-phenyl	2-methyl-1-imidazolyl
	299	SCH_3	2-Cl-phenyl	5-methyl-1-imidazolyl
	300	SCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	301	SCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	302	SCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	303	SCH_3	2-F-phenyl	1-pyrrolidinocarbonyl
	304	SCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	305	SCH_3	2-F-phenyl	4-morpholino
	306	SCH_3	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	307	SCH_3	2-F-phenyl	4-morpholinocarbonyl
	308	SCH_3	2-F-phenyl	2-methyl-1-imidazolyl
	309	SCH_3	2-F-phenyl	5-methyl-1-imidazolyl
_	310	SCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	311	SCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	312	SCH_3	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	313	SCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	314	SCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl

315 SCH3 2,6-diF-phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 317 SCH3 2,6-diF-phenyl 2-(methylsulfonyl-1-imidazolyl 318 SCH3 2,6-diF-phenyl 2-methylsulfonyl-1-imidazolyl 320 SCH3 2,6-diF-phenyl 2-methylsulfonyl-1-imidazolyl 321 SCCH3 3-pyridyl 2-(methylsulfonyl-1-imidazolyl 322 SCCH3 3-pyridyl 324 SCCH3 3-pyridyl 325 SCCH3 3-pyridyl 326 SCCH3 3-pyridyl 326 SCCH3 3-pyridyl 327 SCCH3 3-pyridyl 328 SCCH3 3-pyridyl 329 SCCH3 3-pyridyl 329 SCCH3 3-pyridyl 329 SCCH3 3-pyridyl 320 SCCH3 3-pyridyl 320 SCCH3 3-pyridyl 320 SCCH3 3-pyridyl 326 SCCH3 3-pyridyl 327 SCCH3 3-pyridyl 328 SCCH3 3-pyridyl 329 SCCH3 3-pyridyl 329 SCCH3 3-pyridyl 320 SCCH3 3-pyrimidyl 320 SCCH3 320 SCCH3 320 SCCH3 320 SCCH3 320 SCCH3	W	O 98/28282			. PCT/US97/23470
316 SCH3 2,6-diF-phenyl 317 SCH3 2,6-diF-phenyl 318 SCH3 2,6-diF-phenyl 319 SCH3 2,6-diF-phenyl 2-methyl-1-imidazolyl 320 SCH3 2,6-diF-phenyl 5-methyl-1-imidazolyl 321 SOCH3 phenyl 2-(methylsulfonyl-1)phenyl 322 SOCH3 phenyl 2-(methylsulfonyl)phenyl 323 SOCH3 phenyl 2-(methylsulfonyl)phenyl 324 SOCH3 phenyl 2-(methylsulfonyl)phenyl 325 SOCH3 phenyl 2-(methylsulfonyl)phenyl 326 SOCH3 phenyl 2-(methylsulfonyl)phenyl 327 SOCH3 phenyl 2-methyl-1-imidazolyl 328 SOCH3 phenyl 2-methyl-1-imidazolyl 329 SOCH3 phenyl 2-methyl-1-imidazolyl 330 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 331 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 332 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 334 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 336 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 337 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 341 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 342 SOCH3 3-pyridyl 343 SOCH3 3-pyridyl 344 SOCH3 3-pyridyl 345 SOCH3 3-pyridyl 346 SOCH3 3-pyridyl 347 SOCH3 3-pyridyl 348 SOCH3 3-pyridyl 349 SOCH3 3-pyridyl 340 SOCH3 3-pyridyl 341 SOCH3 3-pyridyl 342 SOCH3 3-pyridyl 343 SOCH3 3-pyridyl 344 SOCH3 3-pyridyl 345 SOCH3 3-pyridyl 346 SOCH3 3-pyridyl 347 SOCH3 3-pyridyl 348 SOCH3 3-pyridyl 349 SOCH3 3-pyridyl 340 SOCH3 3-pyridyl 341 SOCH3 3-pyridyl 342 SOCH3 3-pyridyl 343 SOCH3 3-pyridyl 344 SOCH3 3-pyridyl 345 SOCH3 3-pyridyl 346 SOCH3 3-pyridyl 347 SOCH3 3-pyridyl 348 SOCH3 3-pyridyl 349 SOCH3 3-pyridyl 349 SOCH3 3-pyridyl 340 SOCH3 3-pyridyl 341 SOCH3 3-pyridyl 342 SOCH3 3-pyridyl 343 SOCH3 3-pyridyl 344 SOCH3 3-pyridyl 345 SOCH3 3-pyridyl 345 SOCH3 3-pyridyl 346 SOCH3 3-pyridyl 347 SOCH3 3-pyridyl 348 SOCH3 3-pyridyl 349 SOCH3 3-pyridyl		315 SCH ₃ 2,6-diF-phenyl		2,6-diF-phenyl	4-morpholino
317 SCH3 2,6-diF-phenyl 2-methyl-1-imidazolyl 319 SCH3 2,6-diF-phenyl 2-methyl-1-imidazolyl 320 SCH3 2,6-diF-phenyl 2-methyl-1-imidazolyl 321 SOCH3 phenyl 2-(methylaminosulfonyl) phenyl 2-(methylaminosulfonyl) phenyl 1-pyrrolidinocarbonyl 2-(methylaminosulfonyl) phenyl 326 SOCH3 phenyl 2-methyl-1-imidazolyl 329 SOCH3 phenyl 2-methyl-1-imidazolyl 330 SOCH3 2-pyridyl 2-(methylaminosulfonyl) phenyl 331 SOCH3 2-pyridyl 2-(methylaminosulfonyl) phenyl 332 SOCH3 2-pyridyl 2-(methylaminosulfonyl) phenyl 333 SOCH3 2-pyridyl 2-(methylaminosulfonyl) phenyl 334 SOCH3 2-pyridyl 2-(methylaminosulfonyl) phenyl 345 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-(methylsulfonyl) phenyl 2-(methylsulf		316	SCH ₃	2,6-diF-phenyl	
318 SCH3 2,6-diF-phenyl 2-methyl-1-imidazolyl 320 SCH3 2,6-diF-phenyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-methylsulfonyl-1-imidazolyl 2-(methylsulfonyl) 2-(methylsu		317	SCH_3	2,6-diF-phenyl	4-morpholinocarbonyl
SCH3		318	SCH_3	2,6-diF-phenyl	2-methyl-1-imidazolyl
320 SCH3 2,6-dif-phenyl 2-methylsulfonyl-1-imidazolyl		319	SCH_3		
321 SOCH3 phenyl 2-(methylaminosulfonyl)phenyl 323 SOCH3 phenyl 1-pyrrolidinocarbonyl 324 SOCH3 phenyl 2-(methylaminosulfonyl)phenyl 325 SOCH3 phenyl 2-(methylsulfonyl)phenyl 326 SOCH3 phenyl 4-morpholinocarbonyl 327 SOCH3 phenyl 2-methyl-1-imidazolyl 328 SOCH3 phenyl 2-methyl-1-imidazolyl 329 SOCH3 phenyl 2-methylsulfonyl)phenyl 330 SOCH3 phenyl 2-methylsulfonyl)phenyl 331 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 332 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 334 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 335 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 336 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 340 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 2-(methylaminosulfonyl)phenyl 341 SOCH3 3-pyridyl 2-methylsulfonyl)phenyl 342 SOCH3 3-pyridyl 3-methyl-1-imidazolyl		320	SCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
322 SOCH3 phenyl 2-(methylaminosulfonyl)phenyl 324 SOCH3 phenyl 2-(methylaminosulfonyl)phenyl 325 SOCH3 phenyl 2-(methylaminosulfonyl)phenyl 326 SOCH3 phenyl 2-(i'-CF3-tetrazol-2-yl)phenyl 327 SOCH3 phenyl 2-methyl-1-imidazolyl 328 SOCH3 phenyl 2-methyl-1-imidazolyl 329 SOCH3 phenyl 2-methyl-1-imidazolyl 330 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 331 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 332 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 334 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 335 SOCH3 2-pyridyl 2-(methylaminosulfonyl)phenyl 336 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 340 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 341 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 342 SOCH3 3-pyridyl 3-py		321	SOCH ₃	phenyl	2-(aminosulfonyl)phenyl
323 SOCH3		322	SOCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
2- (methylsulfonyl)phenyl 325 SOCH3 phenyl phenyl 4-morpholino 326 SOCH3 phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 327 SOCH3 phenyl 2-methyl-1-imidazolyl 328 SOCH3 phenyl 2-methyl-1-imidazolyl 329 SOCH3 phenyl 2-methyl-1-imidazolyl 331 SOCH3 phenyl 2-methylsulfonyl-1-imidazolyl 332 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 332 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 334 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 335 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 336 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 337 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 338 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 340 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 2-methyl-1-imidazolyl 341 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 342 SOCH3 3-pyridyl 2-methylsulfonyl-phenyl 345 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 346 SOCH3 3-pyridyl 3-p		323	SOCH ₃		1-pyrrolidinocarbonyl
325 SOCH3		324	SOCH ₃	_	2-(methylsulfonyl)phenyl
326 SOCH3 phenyl 2-(1'-CF3-tetrazol-2-yl)phenyl 327 SOCH3 phenyl 4-morpholinocarbonyl 328 SOCH3 phenyl 2-methyl-1-imidazolyl 329 SOCH3 phenyl 2-methyl-1-imidazolyl 330 SOCH3 phenyl 2-methylsulfonyl-1-imidazolyl 331 SOCH3 2-pyridyl 2-(aminosulfonyl)phenyl 332 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 333 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 334 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 335 SOCH3 2-pyridyl 2-(intylsulfonyl)phenyl 337 SOCH3 2-pyridyl 2-(intylsulfonyl)phenyl 338 SOCH3 2-pyridyl 2-methylsulfonyl)phenyl 339 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 340 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 341 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 342 SOCH3 3-pyridyl 2-(aminosulfonyl)phenyl 343 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 344 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 345 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 346 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 348 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 349 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 3-methyl-1-imidazolyl 3-methyl-1-imidazolyl 3-methyl-1-imidazolyl 2-methylsulfonyl)phenyl 350 SOCH3 2-pyrimidyl 2-methylsulfonyl)phenyl 3-methyl-1-imidazolyl 3-methyl-1-imidazolyl 2-(methylsulfonyl)phenyl 3-methyl-1-imidazolyl 3-methyl-1		325	SOCH ₃	phenyl	
327 SOCH3		326	SOCH ₃	— — -	2-(1'-CF3-tetrazol-2-v1)phenvl
328 SOCH3 phenyl 2-methyl-1-imidazolyl 329 SOCH3 phenyl 5-methyl-1-imidazolyl 330 SOCH3 phenyl 2-methylsulfonyl-1-imidazolyl 331 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 332 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 333 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 334 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 335 SOCH3 2-pyridyl 4-morpholino 336 SOCH3 2-pyridyl 4-morpholinocarbonyl 337 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 339 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 340 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 341 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 342 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 343 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 344 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 345 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 346 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 347 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 348 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 349 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 3-methyl-1-imidazolyl 3-methyl-1-imidazolyl 3-methyl-1-imidazolyl 2-(methylsulfonyl)phenyl 3-methyl-1-imidazolyl 3-methyl-1-imidaz		327	SOCH ₃		4-morpholinocarbonyl
329 SOCH3 phenyl 2-methyl=1-imidazolyl 330 SOCH3 phenyl 2-methylsulfonyl-1-imidazolyl 331 SOCH3 2-pyridyl 2-(aminosulfonyl) phenyl 332 SOCH3 2-pyridyl 2-(methylsulfonyl) phenyl 334 SOCH3 2-pyridyl 2-(methylsulfonyl) phenyl 335 SOCH3 2-pyridyl 2-(methylsulfonyl) phenyl 336 SOCH3 2-pyridyl 2-(intylsulfonyl) phenyl 337 SOCH3 2-pyridyl 2-(intylsulfonyl) phenyl 338 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 339 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 340 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 341 SOCH3 3-pyridyl 2-(intylsulfonyl-1-imidazolyl 342 SOCH3 3-pyridyl 2-(intylsulfonyl-1-imidazolyl 343 SOCH3 3-pyridyl 2-(intylsulfonyl-1) phenyl 344 SOCH3 3-pyridyl 2-(intylsulfonyl-1) phenyl 345 SOCH3 3-pyridyl 2-(intylsulfonyl-1) phenyl 346 SOCH3 3-pyridyl 2-(intylsulfonyl-1) phenyl 347 SOCH3 3-pyridyl 2-(intylsulfonyl-1) phenyl 348 SOCH3 3-pyridyl 2-(intylsulfonyl-1-imidazolyl 349 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 350 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH3 2-pyrimidyl 2-(intylsulfonyl-1-imidazolyl 352 SOCH3 2-pyrimidyl 2-(intylsulfonyl-1-imidazolyl 353 SOCH3 2-pyrimidyl 2-(intylsulfonyl-1-imidazolyl		328	SOCH ₃	_	
330 SOCH3 phenyl 2-methylsulfonyl-1-imidazolyl 331 SOCH3 2-pyridyl 2-(aminosulfonyl)phenyl 332 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 334 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 335 SOCH3 2-pyridyl 2-(methylsulfonyl)phenyl 336 SOCH3 2-pyridyl 2-(1'-CF3-tetrazol-2-yl)phenyl 337 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 338 SOCH3 2-pyridyl 2-methyl-1-imidazolyl 339 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 340 SOCH3 2-pyridyl 2-methylsulfonyl-1-imidazolyl 341 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 342 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 343 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 344 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 345 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 346 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 347 SOCH3 3-pyridyl 2-(methylsulfonyl)phenyl 348 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 349 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 350 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 352 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 353 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 356 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 357 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 358 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 359 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 359 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 359 SOCH3 2-pyrimidyl 2-(methylsulfonyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 359 350		329	SOCH ₃	-	
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343 SOCH ₃ 3-pyridyl 1-pyrrolidinocarbonyl 344 SOCH ₃ 3-pyridyl 2-(methylsulfonyl)phenyl 345 SOCH ₃ 3-pyridyl 4-morpholino 346 SOCH ₃ 3-pyridyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 347 SOCH ₃ 3-pyridyl 4-morpholinocarbonyl 348 SOCH ₃ 3-pyridyl 2-methyl-1-imidazolyl 349 SOCH ₃ 3-pyridyl 2-methyl-1-imidazolyl 350 SOCH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 356 SOCH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 357 SOCH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 358 SOCH ₃ 2-pyrimidyl 4-morpholinocarbonyl 359 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-methylsulfonyl)phenyl		342	SOCH ₃	-	2-(methylaminosulfonyl)phonyl
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345 SOCH3 3-pyridyl 4-morpholino 346 SOCH3 3-pyridyl 2-(1'-CF3-tetrazol-2-yl)phenyl 347 SOCH3 3-pyridyl 4-morpholinocarbonyl 348 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 349 SOCH3 3-pyridyl 5-methyl-1-imidazolyl 350 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH3 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH3 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 356 SOCH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 357 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH3 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-(aminosulfonyl)phenyl		344	SOCH ₃	-	
346 SOCH3 3-pyridyl 2-(1'-CF3-tetrazol-2-yl)phenyl 347 SOCH3 3-pyridyl 4-morpholinocarbonyl 348 SOCH3 3-pyridyl 2-methyl-1-imidazolyl 349 SOCH3 3-pyridyl 5-methyl-1-imidazolyl 350 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH3 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH3 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 356 SOCH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 357 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH3 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-(aminosulfonyl)phenyl		34 5	SOCH ₃		
347 SOCH ₃ 3-pyridyl 4-morpholinocarbonyl 348 SOCH ₃ 3-pyridyl 2-methyl-1-imidazolyl 349 SOCH ₃ 3-pyridyl 5-methyl-1-imidazolyl 350 SOCH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 356 SOCH ₃ 2-pyrimidyl 4-morpholino 357 SOCH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 358 SOCH ₃ 2-pyrimidyl 4-morpholinocarbonyl 359 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl		346	SOCH ₃	-	
348 SOCH ₃ 3-pyridyl 2-methyl-1-imidazolyl 349 SOCH ₃ 3-pyridyl 5-methyl-1-imidazolyl 350 SOCH ₃ 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH ₃ 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH ₃ 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH ₃ 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH ₃ 2-pyrimidyl 4-morpholino 356 SOCH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 357 SOCH ₃ 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl		347	SOCH ₃	3-pyridyl	4-morpholinocarbonyl
349 SOCH3 3-pyridyl 5-methyl-1-imidazolyl 350 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH3 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH3 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 4-morpholino 356 SOCH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 357 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH3 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-methylsulfonyl-1-imidazolyl		348	SOCH ₃	_	
350 SOCH3 3-pyridyl 2-methylsulfonyl-1-imidazolyl 351 SOCH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH3 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH3 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 4-morpholino 356 SOCH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 357 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH3 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-(aminosulfonyl)phenyl		349	SOCH ₃	3-pyridyl	
351 SOCH3 2-pyrimidyl 2-(aminosulfonyl)phenyl 352 SOCH3 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH3 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 4-morpholino 356 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 357 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH3 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-(aminosulfonyl)phenyl	_	350	SOCH ₃	3-pyridyl	
352 SOCH3 2-pyrimidyl 2-(methylaminosulfonyl)phenyl 353 SOCH3 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 4-morpholino 356 SOCH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 357 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH3 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-(aminosulfonyl)phenyl		351	SOCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
353 SOCH3 2-pyrimidyl 1-pyrrolidinocarbonyl 354 SOCH3 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH3 2-pyrimidyl 4-morpholino 356 SOCH3 2-pyrimidyl 2-(1'-CF3-tetrazol-2-yl)phenyl 357 SOCH3 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH3 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH3 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH3 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH3 5-pyrimidyl 2-(aminosulfonyl)phenyl		352	SOCH ₃	2-pyrimidyl	
354 SOCH ₃ 2-pyrimidyl 2-(methylsulfonyl)phenyl 355 SOCH ₃ 2-pyrimidyl 4-morpholino 356 SOCH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 357 SOCH ₃ 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl		35 3	SOCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
355 SOCH ₃ 2-pyrimidyl 4-morpholino 356 SOCH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 357 SOCH ₃ 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl		354	SOCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
356 SOCH ₃ 2-pyrimidyl 2-(1'-CF ₃ -tetrazol-2-yl)phenyl 357 SOCH ₃ 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl		35 5	SOCH3	2-pyrimidyl	
357 SOCH ₃ 2-pyrimidyl 4-morpholinocarbonyl 358 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl		356	SOCH ₃	2-pyrimidyl	
358 SOCH ₃ 2-pyrimidyl 2-methyl-1-imidazolyl 359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl		357	SOCH ₃	_	4-morpholinocarbonyl
359 SOCH ₃ 2-pyrimidyl 5-methyl-1-imidazolyl 360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl			_	<u>-</u>	
360 SOCH ₃ 2-pyrimidyl 2-methylsulfonyl-1-imidazolyl 361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl			_		
361 SOCH ₃ 5-pyrimidyl 2-(aminosulfonyl)phenyl					
t t t t t t t t t t t t t t t t t t t	_				2-(aminosulfonvl)phenyl
			~	5-pyrimidyl	2-(methylaminosulfonyl)phenyl

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	363 SOCH ₃ 5-pyrimidyl		5-pyrimidyl	1-pyrrolidinocarbonyl
	364	SOCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	365	SOCH ₃	5-pyrimidyl	4-morpholino
	366	SOCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	367	SOCH ₃	5-pyrimidyl	4-morpholinocarbonyl
	368	SOCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	369	SOCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	370	SOCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	371	SOCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	372	SOCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	373	SOCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	374	SOCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	375	SOCH ₃	2-Cl-phenyl	4-morpholino
	376	SOCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	377	SOCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	378	SOCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	379	SOCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	380	SOCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
•	381	SOCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	382	SOCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	383	SOCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	384	SOCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	385	SOCH ₃	2-F-phenyl	4-morpholino
	386	SOCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	387	SOCH ₃	2-F-phenyl	4-morpholinocarbonyl
	388	SOCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	389	SOCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	390	SOCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
-	391	SOCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	392	SOCH ₃	2,6-dif-phenyl	2-(methylaminosulfonyl)phenyl
	393	SOCH ₃	2,6-dif-phenyl	1-pyrrolidinocarbonyl
	394	SOCH ₃	2,6-dif-phenyl	2-(methylsulfonyl)phenyl
	395	SOCH ₃	2,6-dif-phenyl	4-morpholino
	396	SOCH ₃		2-(1'-CF3-tetrazol-2-yl)phenyl
	397	SOCH ₃	2,6-dif-phenyl	4-morpholinocarbonyl
	398	SOCH ₃	2,6-dif-phenyl	2-methyl-1-imidazolyl
	39 9	SOCH ₃	2,6-dif-phenyl	5-methyl-1-imidazolyl
	400	SOCH ₃	2,6-dif-phenyl	2-methylsulfonyl-1-imidazolyl
-	401	SO ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
	402	SO ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	403	SO ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	404	SO ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	405	SO ₂ CH ₃	phenyl	4-morpholino
	406	SO ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	407	SO ₂ CH ₃ ··		4-morpholinocarbonyl
		SO ₂ CH ₃ SO ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
		SO ₂ CH ₃	phenyl	5-methyl-1-imidazolyl
			- -	2-methylsulfonyl-1-imidazolyl
_	#10	SO ₂ CH ₃	phenyl	z-mechyraurrohyr-r-imidazolyl

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	411	SO ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	412	SO_2CH_3	2-pyridyl	2-(methylaminosulfonyl)phenyl
	41 3	SO ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	414	SO ₂ CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	41 5	SO_2CH_3	2-pyridyl	4-morpholino
	416	SO_2CH_3	2-pyridyl	2-(1'-CF3-tetrazol-2-y1)phenyl
	417	SO_2CH_3	2-pyridyl	4-morpholinocarbonyl
	41 8	SO_2CH_3	2-pyridyl	2-methyl-1-imidazolyl
	419	SO ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
	420	SO ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	421	SO ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	42 2	SO ₂ CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	42 3	SO_2CH_3	3-pyridyl	1-pyrrolidinocarbonyl
	424	SO_2CH_3	3-pyridyl	2-(methylsulfonyl)phenyl
	425	SO_2CH_3	3-pyridyl	4-morpholino
	426	SO_2CH_3	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	427	SO_2CH_3	3-pyridyl	4-morpholinocarbonyl
	428	SO ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
	429	SO ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
	430	SO ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	431	SO_2CH_3	2-pyrimidyl	2-(aminosulfonyl)phenyl
	432	SO ₂ CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	43 3	SO ₂ CH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	434	SO ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	435	SO_2CH_3	2-pyrimidyl	4-morpholino
	436	SO_2CH_3	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	437	SO_2CH_3	2-pyrimidyl	4-morpholinocarbonyl
	438	SO ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	439	SO ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
-	440	SO ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	441	SO ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	442	SO ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	443	SO ₂ CH ₃	'5-pyrimidyl	1-pyrrolidinocarbonyl
	444	SO ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	445	SO ₂ CH ₃	5-pyrimidyl	4-morpholino
	446	SO ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	447	SO ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	448	SO ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	449	SO ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
_	450	SO ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	451	SO ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	452	SO ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	45 3	SO ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	454	SO ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	45 5	SO ₂ CH ₃	2-Cl-phenyl	4-morpholino
	45 6	SO ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	457	SO ₂ CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	458	SO ₂ CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl

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	459	SO ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	460	SO ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	461	SO ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	462	SO ₂ CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	463	SO ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	464	SO ₂ CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	465	SO ₂ CH ₃	2-F-phenyl	4-morpholino
	466	SO ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	467	SO ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
	46 8	SO ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	469	SO ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	470	SO ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	471	SO ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	4 72	SO_2CH_3	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	47 3	SO ₂ CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	474	SO ₂ CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	47 5	SO ₂ CH ₃	2,6-diF-phenyl	4-morpholino
	476	SO ₂ CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	477	SO_2CH_3	2,6-diF-phenyl	4-morpholinocarbonyl
	478	SO ₂ CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	479	SO ₂ CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	480	SO ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	481	CH ₂ NH-	phenyl	2-(aminosulfonyl)phenyl
	400	SO ₂ CH ₃		
	482	CH ₂ NH-	phenyl	2-(methylaminosulfonyl)phenyl
	400	SO ₂ CH ₃	1	1 2121
	483	CH ₂ NH-	phenyl	1-pyrrolidinocarbonyl
	484	SO ₂ CH ₃	phonul	2 /maths.lev.lfam.al.\
	404	CH ₂ NH- SO ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	485	CH ₂ NH-	phenyl	4-morpholino
	403	SO ₂ CH ₃	pnenyı	4-1101011110
	48 6	CH ₂ NH-	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	-00	SO ₂ CH ₃	pricity 1	z (1 ci 3 ccciazor z yi/pnenyi
	487	CH ₂ NH-	phenyl	4-morpholinocarbonyl
		SO ₂ CH ₃	P03 =	1 morphorimocarbony1
	488	CH ₂ NH-	phenyl	2-methyl-1-imidazolyl
		SO ₂ CH ₃	<u> </u>	
	489	CH ₂ NH-	phenyl	5-methyl-1-imidazolyl
		SO ₂ CH ₃		
	490	CH ₂ NH-	phenyl	2-methylsulfonyl-1-imidazolyl
		SO ₂ CH ₃		
_	491	CH ₂ NH-	2-pyridyl	2-(aminosulfonyl)phenyl
		SO ₂ CH ₃		2
	492	CH ₂ NH-	2-pyridyl	2-(methylaminosulfonyl)phenyl
		SO ₂ CH ₃	-	
	493	CH ₂ NH-	2-pyridyl	1-pyrrolidinocarbonyl
		SO ₂ CH ₃		

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		2-pyridyl	2-(methylsulfonyl)phenyl		
	SO ₂ CH ₃		2 - / 2 - / 2		
49 5	CH ₂ NH-	2-pyridyl	4-morpholino		
	SO ₂ CH ₃		-		
4 96	CH ₂ NH-	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl		
	SO ₂ CH ₃		2 /1 /2		
497	CH ₂ NH-	2-pyridyl	4-morpholinocarbonyl		
	SO ₂ CH ₃		-		
49 8	CH ₂ NH-	2-pyridyl	2-methyl-1-imidazolyl		
	SO ₂ CH ₃		-		
49 9	CH ₂ NH-	2-pyridyl	5-methyl-1-imidazolyl		
	SO ₂ CH ₃		_		
50 0	CH ₂ NH-	2-pyridyl	2-methylsulfonyl-1-imidazolyl		
	SO ₂ CH ₃				
501	CH ₂ NH-	3-pyridyl	2-(aminosulfonyl)phenyl		
	SO ₂ CH ₃				
50 2	CH ₂ NH-	3-pyri dy l	2-(methylaminosulfonyl)phenyl		
	SO ₂ CH ₃				
50 3	CH ₂ NH-	3-pyridyl	1-pyrrolidinocarbonyl		
	SO ₂ CH ₃				
504	CH ₂ NH-	3-pyridyl	2-(methylsulfonyl)phenyl		
For	SO ₂ CH ₃				
50 5	CH ₂ NH-	3-pyri dy l	4-morpholino		
506	SO ₂ CH ₃	2	0 (11 57)		
200	CH ₂ NH-	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl		
507	SO ₂ CH ₃ CH ₂ NH-	3-pyridyl	A		
307	SO ₂ CH ₃	3-pyridyi	4-morpholinocarbonyl		
50 8	CH ₂ NH-	3-pyridyl	2 mo+h.vl 1 imid3-2		
300	SO ₂ CH ₃	J Dyrrayr	2-methyl-1-imidazolyl		
509	CH ₂ NH-	3-pyridyl	5-methyl-1-imidazolyl		
	SO ₂ CH ₃	o pirrajr	J meenyi i-imidazoiyi		
510	CH ₂ NH-	3-pyridyl	2-methylsulfonyl-1-imidazolyl		
	SO ₂ CH ₃		and the conjugate of th		
5 1 1	CH2NH-	2-pyrimidyl	2-(aminosulfonyl)phenyl		
	SO ₂ CH ₃	• • •	(the state of the		
512	CH ₂ NH-	2-pyrimidyl	2-(methylaminosulfonyl)phenyl		
	SO ₂ CH ₃		, and an arrange and arrange arrange		
51 3	CH ₂ NH-	2-pyrimidyl	1-pyrrolidinocarbonyl		
	SO ₂ CH ₃				
514	CH ₂ NH-	2-pyrimidyl	2-(methylsulfonyl)phenyl		
	SO ₂ CH ₃				
515	CH ₂ NH-	2-pyrimidyl	4-morpholino		
	SO ₂ CH ₃		<u>-</u>		
516	CH ₂ NH-	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl		
	SO ₂ CH ₃	_	2 , Learner T		
517	CH ₂ NH- 2-pyrimidyl	4-morpholinocarbonyl			
	SO ₂ CH ₃				

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	518 CH ₂ NH- 2-pyrimidyl		2-pyrimidyl	2-methyl-1-imidazolyl	
		SO ₂ CH ₃			
	519	CH ₂ NH-	2-pyrimidyl	5-methyl-1-imidazolyl	
		SO ₂ CH ₃			
	520	CH ₂ NH-	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl	
_		SO ₂ CH ₃			
	521	CH ₂ NH-	5-pyrimidyl	2-(aminosulfonyl)phenyl	
		SO ₂ CH ₃			
	522	CH ₂ NH-	5-pyrimidyl	2-(methylaminosulfonyl)phenyl	
		SO ₂ CH ₃			
	523	CH ₂ NH-	5-pyrimidyl	1-pyrrolidinocarbonyl	
		SO ₂ CH ₃		= F7== + = = = = = = = = = = = = = = = = =	
	524	CH ₂ NH-	5-pyrimidyl	2-(methylsulfonyl)phenyl	
		SO ₂ CH ₃	, - <u>F</u> 3	z (meengibuliongi)phengi	
	525	CH ₂ NH-	5-pyrimidyl	4-morpholino	
		SO ₂ CH ₃	o pyrimiayi	4 morphorino	
	526	CH ₂ NH-	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl	
	220	SO ₂ CH ₃	J-pyrimidyi	z-(i -cr3-tetrazoi-z-yi)pnenyi	
	527	CH ₂ NH-	5-pyrimidyl	1	
	327	-	2-byrimidyi	4-morpholinocarbonyl	
	528	SO ₂ CH ₃	E		
	320	CH ₂ NH-	5-pyrimidyl	2-methyl-1-imidazolyl	
	E20	SO ₂ CH ₃			
	529	CH ₂ NH-	5-pyrimidyl	5-methyl-1-imidazolyl	
	E20	SO ₂ CH ₃			
	530	CH ₂ NH-	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl	
_		SO ₂ CH ₃			
	531	CH ₂ NH-	2-Cl-phenyl	2-(aminosulfonyl)phenyl	
	530	SO ₂ CH ₃			
	532	CH ₂ NH-	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl	
		SO ₂ CH ₃			
	533	CH ₂ NH-	2-Cl-phenyl	1-pyrrolidinocarbonyl	
		SO ₂ CH ₃			
	534	CH ₂ NH-	2-Cl-phenyl	2-(methylsulfonyl)phenyl	
		SO ₂ CH ₃			
	535	CH ₂ NH-	2-Cl-phenyl	4-morpholino	
		SO ₂ CH ₃			
	536	CH ₂ NH-	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl	
		SO ₂ CH ₃			
	5 37	CH ₂ NH-	2-Cl-phenyl	4-morpholinocarbonyl	
		SO ₂ CH ₃			
	538	CH ₂ NH-	2-C1-phenyl	2-methyl-1-imidazolyl	
		SO ₂ CH ₃		-	
	539	CH ₂ NH-	2-Cl-phenyl	5-methyl-1-imidazolyl	
		SO ₂ CH ₃	_ ~	<u></u>	
	540	CH ₂ NH-	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl	
		SO ₂ CH ₃	E33 -		
_	541	CH ₂ NH-	2-F-phenyl	2-(aminosulfonyl)phenyl	
		SO ₂ CH ₃	Pircity -	- (ourthoadtrony t) buenyt	
		2020113			

					PCT/US97/23470
					methylaminosulfonyl)phenyl
- 00/201	97.			2-(r	methy.laminosullong=71
WO 98/282 54	12	CH2NH-	2-F-ph	Jerry	1-pyrrolidinocarbonyl
د ر		SO_2CH_3	2-F-p	henvl	
54	43	CH2NH-	2-F-D	1101-1	2-(methylsulfonyl)phenyl
_		SO ₂ CH ₃	2-8-0	henyl	
5	44	CH2NH-			4-morpholino
		SO ₂ CH ₃	2-F-K	phenyl	
5	545	CH2NH-			(1'-CF3-tetrazol-2-yl)phenyl
		SO ₂ CH ₃	2-F-	phenyl 2-	(1, 2013, 0)
- :	546	CH ₂ NH-			4-morpholinocarbonyl
		SO ₂ CH ₃ CH ₂ NH-	2-F-	phenyl	
	547	SO ₂ CH ₃			2-methyl-1-imidazolyl
		CH ₂ NH-	2-F	-phenyl	
	548	SO ₂ CH ₃			5-methyl-1-imidazolyl
	- 40	TT NTU.	2-F	-phenyl	1imidazolyl
	549	SO ₂ CH ₃		. 1- onzil 2	2-methylsulfonyl-1-imidazolyl
	550	COLD ATLI	2-F	-phenyl 2	2-(aminosulfonyl)phenyl
	550	SO2CH3		diF-phenyl	2-(aminosulfolly1/pt
	55	CH ₂ NH-	2,6-0	dif-biicii	2-(methylaminosulfonyl)phenyl
	-	SO ₂ CH ₃	3	diF-phenyl	2-(methylaminosus
	55	2 CH ₂ NH-			1-pyrrolidinocarbonyl
		SO ₂ CH	3 2 6-	-diF-phenyl	1-py:1012
	55	CH ₂ NH			2-(methylsulfonyl)phenyl
		SO ₂ CH	13 1 2.6	-diF-phenyl	
	5	54 CH ₂ NH SO ₂ CI			4-morpholino
	_	317	1- 2,6	-dif-phenyl	a a wllphenyl
	5	55 CH ₂ Ni SO ₂ C	H ₃	1- 07327	2-(1'-CF3-tetrazo1-2-91)
	,	556 CH ₂ N	H- 2,6	5-dif-pheny-	2-(1'-CF3-tetrazol-2-yl)phenyl
		SO ₂ C	_		4-morpholinocala
		557 CH2N	H-2,	6-diF-phenyl	l 2-methyl-1-imidazolyl
		SO ₂ 0	CH3	6-diF-pheny	
		558 CH21	NH-2	6-UII P	5-methyl-1-imidazolyl
		SO ₂	CH ₃	,6-diF-pheny	1 5-metriyi = -
		559 CH ₂			1 au 1 fonVl-1-1m2
		SO2	CH ₃	,6-diF-pheny	71 2-methyrsurr
		560 CH	3	, 0	2-(aminosulfonyl)phenyl
			2CH ₃	phenyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
		201	Cl Cl	phenyl	2-(methylaminosulfonyl 1-pyrrolidinocarbonyl 1-pyrrolidinocarbonyl)phenyl
			Cl	phenyl	2-(methylsulloss
		564	Cl	phenyl phenyl	
		565	Cl	phenyl	2-(1'-CF3-tetrazoz 4-morpholinocarbonyl 4-morpholinocarbonyl
		566	Cl	phenyl	2-methy1-1-1mid-201v1
		567	Cl Cl	phenyl	5-methyl-1-1midazolyl
		568 569	Cl	pheny⊥	2-methylsulionyl
		569 570	Cl_	phenyl 2-pyridy	2 - (am 11103u11)-henvi
		571	Cl	2-pyridy	1 2-(metrry rame-range)
		572	Cl	2 57- 2	176
					7.1°

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wc	98/28282			. PCT/US97/23470
	573	Cl	2-pyridyl	1-pyrrolidinocarbonyl
	574	Cl	2-pyridyl	2-(methylsulfonyl)phenyl
	575	Cl	2-pyridyl	4-morpholino
	576	Cl	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	577	Cl	2-pyridyl	4-morpholinocarbonyl
	578	Cl	2-pyridyl	2-methyl-1-imidazolyl
	579	Cl	2-pyridyl	5-methyl-1-imidazolyl
	580	Cl	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	581	Cl	3-pyridyl	2-(aminosulfonyl)phenyl
	582	Cl	3-pyridyl	2-(methylaminosulfonyl)phenyl
	583	Cl	3-pyridyl	1-pyrrolidinocarbonyl
	584	Cl	3-pyridyl	2-(methylsulfonyl)phenyl
	585	Cl	3-pyridyl	4-morpholino
	586	Cl	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	587	Cl	3-pyrid y l	4-morpholinocarbonyl
	588	Cl	3-pyridyl	2-methyl-1-imidazolyl
	589	Cl	3-pyridyl	5-methyl-1-imidazolyl
	590	Cl	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	591	Cl	2-pyrimidyl	2-(aminosulfonyl)phenyl
	592	Cl	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	593	Cl	2-pyrimidyl	1-pyrrolidinocarbonyl
	594	Cl	2-pyrimidyl	2-(methylsulfonyl)phenyl
	595	Cl	2-pyrimidyl	4-morpholino
	596	Cl	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	597	Cl	2-pyrimidyl	4-morpholinocarbonyl
	598	Cl	2-pyrimidyl	2-methyl-1-imidazolyl
	599	Cl Cl	2-pyrimidyl	5-methyl-1-imidazolyl
•	600 601	Cl	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl
	602	Cl	5-pyrimidyl 5-pyrimidyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
	603	Cl	5-pyrimidyl	1-pyrrolidinocarbonyl
	604	Cl	5-pyrimidyl	2-(methylsulfonyl)phenyl
	605	Cl	5-pyrimidyl	4-morpholino
	606	Cl	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	607	Cl	5-pyrimidyl	4-morpholinocarbonyl
	608	Cl	5-pyrimidyl	2-methyl-1-imidazolyl
	609	Cl	5-pyrimidyl	5-methyl-1-imidazolyl
	610	Cl	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	611	Cl	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	612	C1	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	613	C1	2-Cl-phenyl	1-pyrrolidinocarbonyl
	614	Cl	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	615	Cl	2-Cl-phenyl	4-morpholino
	616	Cl	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	617	Cl	2-Cl-phenyl	4-morpholinocarbonyl
	618	Cl	2-Cl-phenyl	2-methyl-1-imidazolyl
	619	Cl	2-Cl-phenyl	5-methyl-1-imidazolyl
	620	Cl	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	621	Cl	2-F-phenyl	2-(aminosulfonyl)phenyl
	622	Cl	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	623	Cl .	± ±	1-pyrrolidinocarbonyl
	624	Cl	2-F-phenyl	2-(methylsulfonyl)phenyl
	625	Cl	2-F-phenyl	4-morpholino
	. 626	Cl	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	627	Cl	2-F-phenyl	4-morpholinocarbonyl

				PCT/US97/23470
	20187			2-methyl-1-imidazolyl
WO 98/		Cl	2-F-phenyl	
	628 629	Cl	2-F-pheny⊥	1 3 -11 + OD(/) - 1 - 1 III + GG 1
	630	Cl	2-F-phenyl	2-methylsullonyl)phenyl 2-(aminosulfonyl)phenyl
	631	Cl	2,6-diF-phenyl	
	632	Cl	2,6-diF-phenyl 2,6-diF-phenyl	2-(methylaminosarbonyl 1-pyrrolidinocarbonyl
	633	Cl	2,6-dif-phenyl	1-pyrrolldinocdino 2-(methylsulfonyl)phenyl 4-morpholino
	634	Cl	2 6-dif-pnenyi	2-(1'-CF3-tetrazol-2-yl)phenyl
	635	Cl Cl	2,6-dif-phenyl	4 ho 1 110 Cal DOM -
	636	Cl	2 6-diF-pheny⊥	
	637	Cl	2 6-diF-pheny⊥	
	638 639	Cl	2 6-diF-pheny⊥	1 -1 -1 -1 + OnV -1 - 1 m + QQ
	640	Cl	2,6-diF-phenyl	
-	641	F	phenyl	- / Lhad aminosulliony - / Proces
	642	F	phenyl	
	643	F	phenyl phenyl	2 (methy) Suliony 1 picts -
	644	F	phenyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
	645	F F	phenyl	2-(1'-CF3-tetlazot - 1'-CF3-tetlazot - 1'-CF3-te
	646		phenyl	$a = a + h_1 x_1 = 1 - 1 m_1 Qa_2 Qa_2 Ya$
	647	F F	phenyl	
	648 649	F	phenyl	13 1 and tony (- 1 - 1 m 1 a a 2 - 1 - 1
	650	F	phenyl	2-methylsulfonyl)phenyl 2-(aminosulfonyl)phenyl
	651	F	2-pyridyl	
	652	F	2-pyridyl	2-(methylaminosarbonyl 1-pyrrolidinocarbonyl
	653	F	2-pyridyl 2-pyridyl	2-(methylsulionyl)photy
	654	F	2-pyridyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
	655	F F	2-pyridyl	2-(1'-CF3-tetlazot 4-morpholinocarbonyl
	656		2-pyridyl	
	657	F F	2-pyridyl	
	658 659	F	2-pyridyl	tony i -1 -1 -1 tony i -1 - 1 mi au -1 -1
	66 <u>0</u>	F	2-pyridyl	2-methylsulfonyl)phenyl 2-(aminosulfonyl)phenyl
	661	F	3-pyridyl	1 cm 1 n O S L U L Y + / F
	662	F	3-pyridyl	2-(methylaminosarbonyl 1-pyrrolidinocarbonyl
	663	F	3-pyridyl 3-pyridyl	2-(methylsulfollyl/pholyl
	664	F	3-pyridyl	2-(Methylbarpholino 4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
	665	F F	5 dill	4holidibuili
	666		3-pyridy	heri-1-imidazoly
	667		, 3-pyridyl	
	668 669		, 3-pyridy.	
	670		$_{2}$ 3-pyridy.	1 2-methylsullony1 yl 2-(aminosulfony1)phenyl
	671		2-pyrimid	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	672	2 1	2-pyrimid	yl 2-(methylaminosarbonyl yl 1-pyrrolidinocarbonyl
	673	3	F 2-pyrimid F 2-pyrimid	2-(methylsulfollyf)pholip
	67	_		dyl 4-morpholino dyl 4-morpholino dyl 2-(1'-CF3-tetrazol-2-yl)phenyl
	67	_	F 2-pyrimic F 2-pyrimic	
	. 67	•	n 2-pyrimic	dylthyl_l-imidazolyl
	67	•	n 2-pyrimic	
	67		n 2-pvrimi	dy_1 dy_2 dy_3 dy_4
	67 68		z 2-pyrimi	dyl 2-methylsullony 2-(aminosulfonyl)phenyl
		81	5-pyrimi	91
		82	F 5-pyrimi	ayı 2 (mes)
	0.			

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	683	F	5-pyrimidyl	1-pyrrolidinocarbonyl
	684	F	5-pyrimidyl	2-(methylsulfonyl)phenyl
	685	F	5-pyrimidyl	4-morpholino
	686	F	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	687	F	5-pyrimidyl	
	688	F	5-pyrimidyl 5-pyrimidyl	4-morpholinocarbonyl 2-methyl-1-imidazolyl
	689	F		
	690	F	5-pyrimidyl	5-methyl-1-imidazolyl
-			5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	691	F	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	692 693	F	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
		F	2-Cl-phenyl	1-pyrrolidinocarbonyl
	694 695	F	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	695 696	F	2-Cl-phenyl	4-morpholino
		F	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	697	F	2-Cl-phenyl	4-morpholinocarbonyl
	698	F	2-Cl-phenyl	2-methyl-1-imidazolyl
	699	F	2-Cl-phenyl	5-methyl-1-imidazolyl
-	700	F	2-C1-phenyl	2-methylsulfonyl-1-imidazolyl
	701	F	2-F-phenyl	2-(aminosulfonyl)phenyl
	702	F	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	703	F	2-F-phenyl	1-pyrrolidinocarbonyl
	704 705	F	2-F-phenyl	2-(methylsulfonyl)phenyl
	705 706	F F	2-F-phenyl	4-morpholino
	707		2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	707 708	F	2-F-phenyl	4-morpholinocarbonyl
	708 709	F F	2-F-phenyl	2-methyl-1-imidazolyl
	710	r F	2-F-phenyl 2-F-phenyl	5-methyl-1-imidazolyl
-	711	<u>-</u>	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl 2-(aminosulfonyl)phenyl
	712	F	2,6-dif-phenyl	2-(methylaminosulfonyl)phenyl
	713	F	2,6-dif-phenyl	1-pyrrolidinocarbonyl
	714	F	2,6-dif-phenyl	2-(methylsulfonyl)phenyl
	715	F	2,6-diF-phenyl	4-morpholino
	716	F	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	717	F	2,6-diF-phenyl	4-morpholinocarbonyl
	718	F	2,6-diF-phenyl	2-methyl-1-imidazolyl
	719	F	2,6-diF-phenyl	5-methyl-1-imidazolyl
	720	F	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
_	721	CO ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
	722	CO ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	723	CO ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	724	CO ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	725			
		CO ₂ CH ₃	phenyl	4-morpholino
	726	CO ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	727	CO ₂ CH ₃	phenyl	4-morpholinocarbonyl
	728	CO_2CH_3	phenyl	2-methyl-1-imidazolyl
	729	CO_2CH_3	phenyl	5-methyl-1-imidazolyl
_	730	CO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	731	CO ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	732	CO ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	733	CO ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	734	CO ₂ CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	735	CO ₂ CH ₃	2-pyridyl 2-pyridyl	
	,	со2си3	z-barraar	4-morpholino

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	CO_2CH_3 CO_2CH_3	2-pyridyl 2-pyridyl	2-(1'-CF3-tetrazol-2-yl)pheny: 4-morpholinocarbonyl

736	2 3	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
737	CO_2CH_3	2-pyridyl	4-morpholinocarbonyl
738	CO ₂ CH ₃	2-pyridyl	2-methyl-1-imidazolyl
739	CO ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
740	CO ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
741	CO ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
742		3-pyridyl	2-(methylaminosulfonyl)phenyl
74 3		3-pyridyl	1-pyrrolidinocarbonyl
744		3-pyridyl	2-(methylsulfonyl)phenyl
745		3-pyridyl	4-morpholino
746		3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
747	2 3	3-pyridyl	4-morpholinocarbonyl
748	2 3	3-pyridyl	2-methyl-1-imidazolyl
749	2 3	3-pyridyl	5-methyl-1-imidazolyl
750	2 - 3	3-pyridyl	
751		2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
752	2 3	2-pyrimidyl	2-(aminosulfonyl)phenyl
753	CO ₂ CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
754		2-pyrimidyl	1-pyrrolidinocarbonyl
755	2 3	2-pyrimidyl 2-pyrimidyl	2-(methylsulfonyl)phenyl
756	CO_2CH_3	2-pyrimidyl 2-pyrimidyl	4-morpholino
757	CO ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
75 <i>7</i>	CO ₂ CH ₃	-	4-morpholinocarbonyl
759	CO ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
76 0	CO ₂ CH ₃ CO ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
761	CO ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
762	CO_2CH_3 CO_2CH_3	5-pyrimidyl	2-(aminosulfonyl)phenyl
763		5-pyrimidyl	2-(methylaminosulfonyl)phenyl
764	CO ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
765	CO ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
766	CO ₂ CH ₃	5-pyrimidyl	4-morpholino
767	CO ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
768	CO ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	CO ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
769 7 70	CO ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	CO ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
771	CO ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
7 72	CO ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
773	CO ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
774	CO ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
775	CO_2CH_3	2-Cl-phenyl	4-morpholino
776	CO ₂ CH ₃	2-C1-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
777	CO_2CH_3	2-Cl-phenyl	4-morpholinocarbonyl
778	CO ₂ CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
779	CO ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
780	CO ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
781	CO ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
782	CO_2CH_3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
7 83	CO_2CH_3	2-F-phenyl	1-pyrrolidinocarbonyl
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	784	CO_2CH_3	2-F-phenyl	2-(methylsulfonyl)phenyl
	7 85	CO ₂ CH ₃	2-F-phenyl	4-morpholino
	786	CO ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	787	CO_2CH_3	2-F-phenyl	4-morpholinocarbonyl
	788	CO ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	789	CO ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	790	CO ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	791	CO ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	792	CO ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	793	CO ₂ CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	794	CO ₂ CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	795	CO_2CH_3	2,6-diF-phenyl	4-morpholino
	79 6	CO ₂ CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	7 97	CO ₂ CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	79 8	CO_2CH_3	2,6-diF-phenyl	2-methyl-1-imidazolyl
	799	CO_2CH_3	2,6-diF-phenyl	5-methyl-1-imidazolyl
	800	CO ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	801	CH ₂ OCH ₃	phenyl	2-(aminosulfonyl)phenyl
	802	CH ₂ OCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	803	CH ₂ OCH ₃	phenyl	1-pyrrolidinocarbonyl
	804	CH ₂ OCH ₃	phenyl	2-(methylsulfonyl)phenyl
	805	CH ₂ OCH ₃	phenyl	4-morpholino
	806	CH ₂ OCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	807	CH ₂ OCH ₃	phenyl	4-morpholinocarbonyl
	808	CH ₂ OCH ₃	phenyl	2-methyl-1-imidazolyl
	809	CH ₂ OCH ₃	phenyl	5-methyl-1-imidazolyl
	810	CH ₂ OCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	811	CH ₂ OCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	812	CH ₂ OCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	813	CH ₂ OCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	814	CH ₂ OCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	815	CH ₂ OCH ₃	2-pyridyl	4-morpholino
	816	CH ₂ OCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	817	CH ₂ OCH ₃	2-pyridyl	4-morpholinocarbonyl
	818	CH ₂ OCH ₃	2-pyridyl	2-methyl-1-imidazolyl
	819	CH ₂ OCH ₃	2-pyridyl	5-methyl-1-imidazolyl
_	820	CH ₂ OCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	821	CH ₂ OCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	822	CH ₂ OCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	823	CH ₂ OCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	824	CH ₂ OCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	825	CH ₂ OCH ₃	3-pyridyl	4-morpholino
	826	CH ₂ OCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	827	CH ₂ OCH ₃	3-pyridyl	4-morpholinocarbonyl
	828	CH ₂ OCH ₃	3-pyridyl	2-methyl-1-imidazolyl
	829	CH ₂ OCH ₃	3-pyridyl	5-methyl-1-imidazolyl
_	830	CH ₂ OCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	831	CH ₂ OCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl

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	832	CH ₂ OCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	833	CH ₂ OCH ₃	_	1-pyrrolidinocarbonyl
	834	CH ₂ OCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	835	CH ₂ OCH ₃		4-morpholino
	836	CH ₂ OCH ₃		2-(1'-CF3-tetrazol-2-yl)phenyl
	837	CH ₂ OCH ₃		4-morpholinocarbonyl
	838	CH ₂ OCH ₃	~ -	2-methyl-1-imidazolyl
	839	CH ₂ OCH ₃		5-methyl-1-imidazolyl
	840	CH ₂ OCH ₃		2-methylsulfonyl-1-imidazolyl
_	841	CH ₂ OCH ₃		2-(aminosulfonyl)phenyl
	842	CH ₂ OCH ₃		2-(methylaminosulfonyl)phenyl
	843	CH ₂ OCH ₃		1-pyrrolidinocarbonyl
	844	CH ₂ OCH ₃		2-(methylsulfonyl)phenyl
	845	CH ₂ OCH ₃	5-pyrimidyl	4-morpholino
	846	CH ₂ OCH ₃	-	2-(1'-CF3-tetrazol-2-yl)phenyl
	847	CH ₂ OCH ₃		4-morpholinocarbonyl
	848	CH ₂ OCH ₃		2-methyl-1-imidazolyl
	849	CH ₂ OCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	850	CH ₂ OCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	851	CH ₂ OCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	852	CH ₂ OCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	853	CH ₂ OCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	854	CH ₂ OCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	855	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholino
	856	CH ₂ OCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	857	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	858	CH ₂ OCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	859	CH ₂ OCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	860	CH ₂ OCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	861	CH ₂ OCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	862	CH ₂ OCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	863	CH ₂ OCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	864	CH ₂ OCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	865	CH ₂ OCH ₃	2-F-phenyl	4-morpholino
	866	CH ₂ OCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	867	CH ₂ OCH ₃	2-F-phenyl	4-morpholinocarbonyl
	868	CH ₂ OCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	869	CH ₂ OCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	870	CH ₂ OCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	871	CH ₂ OCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	872	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	87 3	CH ₂ OCH ₃	_	1-pyrrolidinocarbonyl
	874	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	875	CH ₂ OCH ₃		4-morpholino
	876	CH ₂ OCH ₃		2-(1'-CF3-tetrazol-2-yl)phenyl
	877	CH ₂ OCH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	878		2,6-diF-phenyl	2-methyl-1-imidazolyl
	879	CH ₂ OCH ₃		5-methyl-1-imidazolyl
			<u>.</u> 3 —	

_	880	СН2ОСН3	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	881	CONH ₂	phenyl	2-(aminosulfonyl)phenyl
	882	CONH ₂	phenyl	2-(methylaminosulfonyl)phenyl
	883	CONH ₂	phenyl	1-pyrrolidinocarbonyl
	884	CONH ₂	phenyl	2-(methylsulfonyl)phenyl
	885	CONH ₂	phenyl	4-morpholino
	886	CONH ₂	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	887	CONH ₂	phenyl	4-morpholinocarbonyl .
	888	CONH ₂	phenyl	2-methyl-1-imidazolyl
	889	CONH ₂	phenyl	5-methyl-1-imidazolyl
_	890	CONH ₂	phenyl	2-methylsulfonyl-1-imidazolyl
	891	CONH ₂	2-pyridyl	2-(aminosulfonyl)phenyl
	892	CONH ₂	2-pyridyl	2-(methylaminosulfonyl)phenyl
	893	CONH ₂	2-pyridyl	1-pyrrolidinocarbonyl
	894	CONH ₂	2-pyridyl	2-(methylsulfonyl)phenyl
	895	CONH ₂	2-pyridyl	4-morpholino
	896	CONH ₂	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	897	CONH ₂	2-pyridyl	4-morpholinocarbonyl
	898	CONH ₂	2-pyridyl	2-methyl-1-imidazolyl
	899	CONH ₂	2-pyridyl	5-methyl-1-imidazolyl
	900	CONH ₂	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	901	CONH ₂	3-pyridyl	2-(aminosulfonyl)phenyl
	902	CONH ₂	3-pyridyl	2-(methylaminosulfonyl)phenyl
	903	CONH ₂	3-pyridyl	1-pyrrolidinocarbonyl
	904	CONH ₂	3-pyridyl	2-(methylsulfonyl)phenyl
	905	CONH ₂	3-pyridyl	4-morpholino
	906	CONH ₂	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	907	CONH ₂	3-pyridyl	4-morpholinocarbonyl
	908	CONH ₂	3-pyridyl	2-methyl-1-imidazolyl
	909	CONH ₂	3-pyridyl	5-methyl-1-imidazolyl
_	910	CONH ₂	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	911	CONH ₂	2-pyrimidyl	2-(aminosulfonyl)phenyl
	912	CONH ₂	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	913	CONH ₂	2-pyrimidyl	1-pyrrolidinocarbonyl
	914	CONH ₂	2-pyrimidyl	2-(methylsulfonyl)phenyl
	915	CONH ₂	2-pyrimidyl	4-morpholino
	916	CONH ₂	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	917	CONH ₂	2-pyrimidyl	4-morpholinocarbonyl
	918	CONH ₂	2-pyrimidyl	2-methyl-1-imidazolyl
	919	CONH ₂	2-pyrimidyl	5-methyl-1-imidazolyl
_	920	CONH ₂	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	921	CONH ₂	5-pyrimidyl	2-(aminosulfonyl)phenyl
	922	CONH ₂	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	923	CONH ₂	5-pyrimidyl	1-pyrrolidinocarbonyl
	924	CONH ₂	5-pyrimidyl	2-(methylsulfonyl)phenyl
	925	CONH ₂	5-pyrimidyl	4-morpholino
	926	CONH ₂	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	927	CONH ₂	5-pyrimidyl	4-morpholinocarbonyl

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	928	CONH ₂	5-pyrimidyl	2-methyl-1-imidazolyl
	929	CONH ₂	5-pyrimidyl	5-methyl-1-imidazolyl
	930	CONH ₂	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	931	CONH ₂	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	932	$CONH_2$	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	933	$CONH_2$	2-Cl-phenyl	1-pyrrolidinocarbonyl
	934	CONH ₂	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	935	$CONH_2$	2-Cl-phenyl	4-morpholino
	936	$CONH_2$	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	937	$CONH_2$	2-Cl-phenyl	4-morpholinocarbonyl
	938	CONH ₂	2-Cl-phenyl	2-methyl-1-imidazolyl
	939	CONH ₂	2-Cl-phenyl	5-methyl-1-imidazolyl
	940	CONH ₂	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	941	CONH ₂	2-F-phenyl	2-(aminosulfonyl)phenyl
	942	CONH ₂	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	943	$CONH_2$	2-F-phenyl	1-pyrrolidinocarbonyl
	944	CONH ₂	2-F-phenyl	2-(methylsulfonyl)phenyl
	945	CONH ₂	2-F-phenyl	4-morpholino
	946	CONH ₂	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	947	CONH ₂	2-F-phenyl	4-morpholinocarbonyl
	94 8	CONH ₂	2-F-phenyl	2-methyl-1-imidazolyl
	949	CONH ₂	2-F-phenyl	5-methyl-1-imidazolyl
_	950	CONH ₂	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	951	CONH ₂	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	952	$CONH_2$	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	953	CONH ₂	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	954	CONH ₂	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	955	$CONH_2$	2,6-diF-phenyl	4-morpholino
	956	CONH ₂	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	957	CONH ₂	2,6-diF-phenyl	4-morpholinocarbonyl
	958	CONH ₂	2,6-diF-phenyl	2-methyl-1-imidazolyl
	9 59	CONH ₂	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	960	CONH ₂	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl

FX #	Ria	A	B
1	CH ₃	phenyl	2-(aminosulfonyl)phenyl
2	CH_3	phenyl	2-(methylaminosulfonyl)phenyl
3	CH ₃	phenyl	1-pyrrolidinocarbonyl
4	CH_3	phenyl	2-(methylsulfonyl)phenyl
5	CH ₃	phenyl	4-morpholino
6	CH_3	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
7	CH_3	phenyl	4-morpholinocarbonyl
8	CH ₃	phenyl	2-methyl-1-imidazolyl
9	CH_3	phenyl	5-methyl-1-imidazolyl
10	CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
11	CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
12	CH_3	2-pyridyl	2-(methylaminosulfonyl)phenyl
1 3	CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
14	CH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
15	CH ₃	2-pyridyl	4-morpholino
16	CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
17	CH ₃	2-pyridyl	4-morpholinocarbonyl
18	CH ₃	2-pyridyl	2-methyl-1-imidazolyl
19	CH ₃	2-pyridyl	5-methyl-1-imidazolyl
20	CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
21	CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
22	CH ₃ "	3-pyridyl	2-(methylaminosulfonyl)phenyl
23	CH_3	3-pyridyl	1-pyrrolidinocarbonyl
24	CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
25	CH ₃	3-pyridyl	4-morpholino

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	26	CH_3	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	27	CH_3	3-pyridyl	4-morpholinocarbonyl
	28	CH_3	3-pyridyl	2-methyl-1-imidazolyl
	29	CH_3	3-pyridyl	5-methyl-1-imidazolyl
_	30	CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	31	CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	32	CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	33	CH_3	2-pyrimidyl	1-pyrrolidinocarbonyl
	34	CH_3	2-pyrimidyl	2-(methylsulfonyl)phenyl
	35	CH_3	2-pyrimidyl	4-morpholino
	36	CH_3	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	37	CH_3	2-pyrimidyl	4-morpholinocarbonyl
	38	CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	39	CH_3	2-pyrimidyl	5-methyl-1-imidazolyl
	40	CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	41	CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	42	CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	43	CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	44	CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	4 5	CH ₃	5-pyrimidyl	4-morpholino
	46	CH_3	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	47	CH_3	5-pyrimidyl	4-morpholinocarbonyl
	48	CH_3	5-pyrimidyl	2-methyl-1-imidazolyl
	49	CH_3	5-pyrimidyl	5-methyl-1-imidazolyl
_	50	CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	51	CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	52	CH_3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	53	CH_3	2-Cl-phenyl	1-pyrrolidinocarbonyl
	54	CH_3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	5 5	CH ₃	2-Cl-phenyl	4-morpholino
	56	CH_3	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-y1)phenyl
	57	CH_3	2-Cl-phenyl	4-morpholinocarbonyl
	58	CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	59	CH_3	2-Cl-phenyl	5-methyl-1-imidazolyl
	60	CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	61	CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	62	CH_3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	63	CH_3	2-F-phenyl	1-pyrrolidinocarbonyl
	64	CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	6 5	CH_3	2-F-phenyl	4-morpholino
	66	CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	67	CH ₃	2-F-phenyl	4-morpholinocarbonyl
	68	CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	69	CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
_	70	CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	71	CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	72	CH_3	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	73	CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl

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	74	CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	75	CH ₃	2,6-diF-phenyl	
	76	CH ₃	2,6-diF-phenyl	
	77	CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	78	CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	79	CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	80	CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
•	81	CH ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
	82	CH ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	83	CH ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	84	CH ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	85	CH ₂ CH ₃	phenyl	4-morpholino
	86	CH ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	87	CH ₂ CH ₃	phenyl	4-morpholinocarbonyl
	88	CH ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
	89	CH ₂ CH ₃	phenyl	5-methyl-1-imidazolyl
	90	CH ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
-	91	CH ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	92	CH ₂ CH ₃	2-pyridyl 2-pyridyl	2-(methylaminosulfonyl)phenyl
	93	CH ₂ CH ₃	2-pyridyl 2-pyridyl	1-pyrrolidinocarbonyl
	94	CH ₂ CH ₃	2-pyridyl 2-pyridyl	2-(methylsulfonyl)phenyl
	95	CH ₂ CH ₃	2-pyridyl 2-pyridyl	4-morpholino
	96	CH ₂ CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	97	CH ₂ CH ₃	2-pyridyl	4-morpholinocarbonyl
	98	CH ₂ CH ₃	2-pyridyl	2-methyl-1-imidazolyl
	9 9	CH ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
	100	CH ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
-	101	CH ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	102	CH ₂ CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	103	CH ₂ CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	104	CH ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	105	CH ₂ CH ₃	3-pyridyl	4-morpholino
	106	CH ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	107	CH ₂ CH ₃	3-pyridyl	4-morpholinocarbonyl
	108	CH ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
	109	CH ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
	110	CH ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
_	111	CH ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	112	CH ₂ CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	113	CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	1-pyrrolidinocarbonyl
	114	CH ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	115	CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	-
	116	CH ₂ CH ₃ CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	4-morpholino 2-(1'-CF3-tetrazol-2-yl)phenyl
	117	CH ₂ CH ₃ CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	
	118	CH ₂ CH ₃ -		4-morpholinocarbonyl
	119	CH ₂ CH ₃ CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	2-methyl-1-imidazolyl 5-methyl-1-imidazolyl
	120	CH ₂ CH ₃ CH ₂ CH ₃	2-pyrimidyl 2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
_	121		5-pyrimidyl	
	141	CH ₂ CH ₃	2-bAttwraAt	2-(aminosulfonyl)phenyl

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	122	CH ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	123	CH ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	124	CH ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	125	CH ₂ CH ₃	5-pyrimidyl	4-morpholino
	126	CH_2CH_3	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	127	CH ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	128	CH ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	129	CH ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	_130	CH ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	131	CH_2CH_3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	13 2	CH ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	133	CH ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	134	CH_2CH_3	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	13 5	CH_2CH_3	2-Cl-phenyl	4-morpholino
	136	CH_2CH_3	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	137	CH_2CH_3	2-Cl-phenyl	4-morpholinocarbonyl
	138	CH_2CH_3	2-Cl-phenyl	2-methyl-1-imidazolyl
	139	CH_2CH_3	2-Cl-phenyl	5-methyl-1-imidazolyl
	140	CH ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	141	CH ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	142	CH_2CH_3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	143	CH ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	144	CH_2CH_3	2-F-phenyl	2-(methylsulfonyl)phenyl
	145	CH ₂ CH ₃	2-F-phenyl	4-morpholino
	146	CH ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	147	CH ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
	148	CH ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	149	CH ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
_	150	CH ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	151	CH ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	152	CH ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	15 3	CH ₂ CH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	154	CH ₂ CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	15 5		2,6-diF-phenyl	4-morpholino
	156	CH ₂ CH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
			2,6-diF-phenyl	4-morpholinocarbonyl
			2,6-diF-phenyl	2-methyl-1-imidazolyl
			2,6-diF-phenyl	5-methyl-1-imidazolyl
-		CH ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	161	CF ₃	phenyl	2-(aminosulfonyl)phenyl
	162	CF ₃	phenyl	2-(methylaminosulfonyl)phenyl
	163	CF ₃	phenyl	1-pyrrolidinocarbonyl
	164	CF ₃	phenyl	2-(methylsulfonyl)phenyl
	165	CF ₃	phenyl	4-morpholino
	166 167	CF ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	167	CF ₃	phenyl	4-morpholinocarbonyl
	168	CF ₃	phenyl	2-methyl-1-imidazolyl
	169	CF ₃	phenyl	5-methyl-1-imidazolyl

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	170	CF ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	171	CF ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	172	CF ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	173	CF ₃	2-pyridyl	1-pyrrolidinocarbonyl
	174	CF ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	17 5	CF ₃	2-pyridyl	4-morpholino
	176	CF ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	177	CF ₃	2-pyridyl	4-morpholinocarbonyl
	178	CF ₃	2-pyridyl	2-methyl-1-imidazolyl
	179	CF_3	2-pyridyl	5-methyl-1-imidazolyl
	180	CF ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	181	CF ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	182	CF ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	183	CF ₃	3-pyridyl	1-pyrrolidinocarbonyl
	184	CF ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	185	CF ₃	3-pyridyl	4-morpholino
	186	\mathtt{CF}_3	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	187	\mathtt{CF}_3	3-pyridyl	4-morpholinocarbonyl
	188	\mathtt{CF}_3	3-pyridyl	2-methyl-1-imidazolyl
	189	\mathtt{CF}_3	3-pyridyl	5-methyl-1-imidazolyl
	190	CF ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	191	CF ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	192	CF_3	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	193	CF_3	2-pyrimidyl	1-pyrrolidinocarbonyl
	194	CF ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	195	\mathtt{CF}_3	2-pyrimidyl	4-morpholino
	196	\mathtt{CF}_3	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	197	CF_3	2-pyrimi dy l	4-morpholinocarbonyl
	198	CF_3	2-pyrimidyl	2-methyl-1-imidazolyl
	199	\mathtt{CF}_3	2-pyrimidyl	5-methyl-1-imidazolyl
	200	CF ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	201	CF ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	202	\mathtt{CF}_3	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	203	CF ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	204	CF ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	205	CF ₃	5-pyrimidyl	4-morpholino
	206	CF ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	207	CF ₃	5-pyrimidyl	4-morpholinocarbonyl
	208	\mathtt{CF}_3	5-pyrimidyl	2-methyl-1-imidazolyl
	209	CF ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	210	CF ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	211	CF_3	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	212	CF_3	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	213	CF_3	2-Cl-phenyl	1-pyrrolidinocarbonyl
	214	CF ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	215	CF_3	2-Cl-phenyl	4-morpholino
	216	CF_3	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	217 .	\mathtt{CF}_3	2-Cl-phenyl	4-morpholinocarbonyl

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	218	CF_3	2-Cl-phenyl	2-methyl-1-imidazolyl
	219	CF ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	220	CF_3	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	221	CF ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	222	CF_3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	223	CF_3	2-F-phenyl	1-pyrrolidinocarbonyl
	224	CF ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	225	CF ₃	2-F-phenyl	4-morpholino
	226	CF ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	227	CF ₃	2-F-phenyl	4-morpholinocarbonyl
	228	CF ₃	2-F-phenyl	2-methyl-1-imidazolyl
	229	CF ₃	2-F-phenyl	5-methyl-1-imidazolyl
	230	CF ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
•	231	CF ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	232	CF ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	233	CF_3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	234	CF ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	235	CF ₃	2,6-diF-phenyl	4-morpholino
	236	CF_3	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	237	CF_3	2,6-diF-phenyl	4-morpholinocarbonyl
	238	CF_3	2,6-diF-phenyl	2-methyl-1-imidazolyl
	239	CF ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	240	CF ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
-	241	SCH ₃	phenyl	2-(aminosulfonyl)phenyl
	242	SCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	243	SCH ₃	phenyl	1-pyrrolidinocarbonyl
	244	SCH ₃	phenyl	2-(methylsulfonyl)phenyl
	245	SCH ₃	phenyl	4-morpholino
	246	SCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	247	SCH ₃	phenyl	4-morpholinocarbonyl
	248	SCH ₃	phenyl	2-methyl-1-imidazolyl
	249	SCH ₃	phenyl	5-methyl-1-imidazolyl
	250	SCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
_	251	SCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	252	SCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	253	SCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	254	SCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	255	SCH ₃	2-pyridyl	4-morpholino
	256	SCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	257	SCH ₃	2-pyridyl	4-morpholinocarbonyl
	258	SCH_3	2-pyridyl	2-methyl-1-imidazolyl
	259	SCH ₃	2-pyridyl	5-methyl-1-imidazolyl
_	260	SCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
_	261	SCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	262	SCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	263	SCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	264	SCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	265	SCH ₃	3-pyridyl	4-morpholino
		-	-	•

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	266	SCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	267	SCH ₃	3-pyridyl	4-morpholinocarbonyl
	268	SCH ₃	3-pyridyl	2-methyl-1-imidazolyl
	269	SCH ₃	3-pyridyl	5-methyl-1-imidazolyl
	270	SCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
-	271	SCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	272	SCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	273	SCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	274	SCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	275	SCH ₃	2-pyrimidyl	4-morpholino
	276	SCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	277	SCH ₃	2-pyrimidyl	4-morpholinocarbonyl
	278	SCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	279	SCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
	280	SCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	281	SCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	282	SCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	283	SCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	284	SCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	285	SCH ₃	5-pyrimidyl	4-morpholino
	286	SCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	287	SCH ₃	5-pyrimidyl	4-morpholinocarbonyl
	288	SCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	289	SCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	290	SCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
•	291	SCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	292	SCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	293	SCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	294	SCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	29 5	SCH ₃	2-Cl-phenyl	4-morpholino
	296	SCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	297	SCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	298	SCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	299	SCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	300	SCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
•	301	SCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	302	SCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	30 3	SCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	304	SCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	305	SCH ₃	2-F-phenyl	4-morpholino
	306	SCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	307	SCH ₃	2-F-phenyl	4-morpholinocarbonyl
	308	SCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	309	SCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	310	SCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	311	SCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	312	SCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	313	SCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
		-		

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	314	SCH_3	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	315	SCH ₃	2,6-diF-phenyl	4-morpholino
	316	SCH_3	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	317	SCH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	318	SCH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	319	SCH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	320	SCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	321	SOCH ₃	phenyl	2-(aminosulfonyl)phenyl
	322	SOCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	323	SOCH ₃	phenyl	1-pyrrolidinocarbonyl
	324	SOCH ₃	phenyl	2-(methylsulfonyl)phenyl
	32 5	SOCH ₃	phenyl	4-morpholino
	326	SOCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	327	SOCH ₃	phenyl	4-morpholinocarbonyl
	328	SOCH3	phenyl	2-methyl-1-imidazolyl
	329	SOCH ₃	phenyl	5-methyl-1-imidazolyl
_	330	SOCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	331	SOCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	33 2	SOCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	33 3	SOCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	334	SOCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	335	SOCH ₃	2-pyridyl	4-morpholino
	336	SOCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	337	SOCH ₃	2-pyridyl	4-morpholinocarbonyl
	338	SOCH ₃	2-pyridyl	2-methyl-1-imidazolyl
	339	SOCH ₃	2-pyridyl	5-methyl-1-imidazolyl
_	340	SOCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	341	SOCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	342	SOCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	34 3	SOCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	344	SOCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	345	SOCH ₃	3-pyridyl	4-morpholino
	346	SOCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	347	SOCH ₃	3-pyridyl	4-morpholinocarbonyl
	34 8	SOCH ₃	3-pyridyl	2-methyl-1-imidazolyl
	349	SOCH ₃	3-pyridyl	5-methyl-1-imidazolyl
_	350	SOCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	351	SOCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	352	SOCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	353	SOCH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	354	SOCH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	3 5 5	SOCH ₃	2-pyrimidyl	4-morpholino
	356	SOCH ₃		2-(1'-CF3-tetrazol-2-yl)phenyl
	357	SOCH ₃	2-pyrimidyl	4-morpholinocarbonyl
	358	SOCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	359	SOCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
_	360	SOCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	361	SOCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl

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	362	SOCH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	36 3	SOCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	364	SOCH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	365	SOCH ₃	5-pyrimidyl	4-morpholino
	366	SOCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	367	SOCH ₃	5-pyrimidyl	4-morpholinocarbonyl
	368	SOCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	369	SOCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	370	SOCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	371	SOCH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	372	SOCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	37 3	SOCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	374	SOCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	375	SOCH ₃	2-Cl-phenyl	4-morpholino
	376	SOCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-y1)phenyl
	377	SOCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	378	SOCH ₃	2-C1-phenyl	2-methyl-1-imidazolyl
	379	SOCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
_	380	SOCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	381	SOCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	382	SOCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	383	SOCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	384	SOCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	385	SOCH ₃	2-F-phenyl	4-morpholino
	386	$SOCH_3$	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	387	$SOCH_3$	2-F-phenyl	4-morpholinocarbonyl
	388	SOCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	389	SOCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
_	390	SOCH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	391	SOCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	392	SOCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	393	SOCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	394	SOCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	395	SOCH ₃	2,6-diF-phenyl	4-morpholino
	396	SOCH ₃		2-(1'-CF ₃ -tetrazol-2-yl)phenyl
	397	SOCH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	398	SOCH ₃		2-methyl-1-imidazolyl
	399	SOCH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	400	SOCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	401	SO ₂ CH ₃	phenyl	2-(aminosulfonyl)phenyl
	402	SO ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	403	SO ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	404	SO ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	405	SO ₂ CH ₃	phenyl	4-morpholino
	406	SO ₂ CH ₃		2-(1'-CF ₃ -tetrazol-2-yl)phenyl
	407	SO ₂ CH ₃	phenyl	4-morpholinocarbonyl
		SO ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
	409	SO ₂ CH ₃	phenyl	5-methyl-1-imidazolyl

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	410	SO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	411	SO ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	412	SO_2CH_3	2-pyridyl	2-(methylaminosulfonyl)phenyl
	413	SO_2CH_3	2-pyridyl	1-pyrrolidinocarbonyl
	414	SO_2CH_3	2-pyridyl	2-(methylsulfonyl)phenyl
	415	SO ₂ CH ₃	2-pyridyl	4-morpholino
	416	SO_2CH_3	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	417	SO_2CH_3	2-pyridyl	4-morpholinocarbonyl
	418	SO_2CH_3	2-pyridyl	2-methyl-1-imidazolyl
	419	SO_2CH_3	2-pyridyl	5-methyl-1-imidazolyl
	420	SO ₂ CH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	421	SO ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	42 2	SO_2CH_3	3-pyridyl	2-(methylaminosulfonyl)phenyl
	42 3	SO_2CH_3	3-pyridyl	1-pyrrolidinocarbonyl
	424	SO ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	425	SO_2CH_3	3-pyridyl	4-morpholino
	426	SO ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	427	SO_2CH_3	3-pyridyl	4-morpholinocarbonyl
	42 8	SO ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
	429	SO ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
	430	SO ₂ CH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	431	SO ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	43 2	SO ₂ CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	43 3	SO_2CH_3	2-pyrimidyl	1-pyrrolidinocarbonyl
	434	SO ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	435	SO ₂ CH ₃	2-pyrimidyl	4-morpholino
	43 6	SO_2CH_3	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	437	SO ₂ CH ₃	2-pyrimidyl	4-morpholinocarbonyl
	438	SO_2CH_3	2-pyrimidyl	2-methyl-1-imidazolyl
	439	SO ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
_	440	SO ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	441	SO ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	442	SO ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	443	SO ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	444	SO ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	445	SO ₂ CH ₃	5-pyrimidyl	4-morpholino
	446	SO ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	447	SO ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	448	SO ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	449	SO ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
_	450	SO ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	451	SO ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	452	SO ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	45 3	SO ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	454	SO ₂ CH ₃		2-(methylsulfonyl)phenyl
	455	SO ₂ CH ₃	2-C1-phenyl	4-morpholino
	456	SO ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	457	SO ₂ CH ₃	2-Cl-phenyl	4-morpholinocarbonyl

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	458	SO ₂ CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	4 59	SO ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	460	SO ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
	461	SO ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	462	SO ₂ CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	463	SO ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	464	SO ₂ CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	465	SO ₂ CH ₃	2-F-phenyl	4-morpholino
	46 6	SO ₂ CH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	467	SO ₂ CH ₃	2-F-phenyl	4-morpholinocarbonyl
	468	SO ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	469	SO ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	470	SO ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	471	SO ₂ CH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	47 2	SO ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	47 3	SO_2CH_3	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	474	SO ₂ CH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	475	SO_2CH_3	2,6-diF-phenyl	4-morpholino
	476	SO_2CH_3	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	477	SO ₂ CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	47 8	SO ₂ CH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	479	SO ₂ CH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	480	SO ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	481	CH ₂ NH-	phenyl	2-(aminosulfonyl)phenyl
		SO ₂ CH ₃		
	482	CH ₂ NH-	phenyl	2-(methylaminosulfonyl)phenyl
	400	SO ₂ CH ₃		
	483	CH ₂ NH-	phenyl	1-pyrrolidinocarbonyl
	404	SO ₂ CH ₃	, ,	
	484	CH ₂ NH-	phenyl	2-(methylsulfonyl)phenyl
	405	SO ₂ CH ₃	1 1	
	485	CH ₂ NH-	phenyl	4-morpholino
	486	SO ₂ CH ₃	11	2 /1/ 07- 6-6
	400	CH ₂ NH-	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	487	SO ₂ CH ₃ CH ₂ NH-	nhan]	4 marmhalinasarhanni
	407	SO ₂ CH ₃	phenyl	4-morpholinocarbonyl
	488	CH ₂ NH-	phenyl	2-methyl-1-imidazolyl
	400	SO ₂ CH ₃	prietry	z-mechyr-r-imidazoryr
	489	CH ₂ NH-	phenyl	5-methyl-1-imidazolyl
	407	SO ₂ CH ₃	phenyi	J-meeny1-1-1mida201y1
	490	CH ₂ NH-	phenyl	2-methylsulfonyl-1-imidazolyl
	130	SO ₂ CH ₃	pitetry	2 meenyisdiionyi-i-imidazoiyi
-	491	CH ₂ NH-	2-pyridyl	2-(aminosulfonyl)phenyl
	-a-2-a-	SO ₂ CH ₃		z (aminosarronyr) buenyr
	492	CH ₂ NH-	2-pyridyl	2-(methylaminosulfonyl)phenyl
	·	SO ₂ CH ₃	2 PALTAAT	2 (meetry raminosurrony) phenyl
		Sozens		

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493	CH ₂ NH-	2-pyridyl	1-pyrrolidinocarbonyl
422	SO ₂ CH ₃	z-pyrrayr	1-pyrroridinocarbonyr
494		0	2 (
494	CH ₂ NH-	2-pyridyl	2-(methylsulfonyl)phenyl
	SO ₂ CH ₃	=	
49 5	CH ₂ NH-	2-pyridyl	4-morpholino
	SO_2CH_3		
496	CH2NH-	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO ₂ CH ₃		
497	CH ₂ NH-	2-pyridyl	4-morpholinocarbonyl
	SO ₂ CH ₃	1.1 .	
498	CH ₂ NH-	2-pyridyl	2-methyl-1-imidazolyl
430	SO ₂ CH ₃	z pyridyr	2-methy1-1-1mida201y1
400		2	
49 9	CH ₂ NH-	2-pyridyl	5-methyl-1-imidazolyl
= 0.0	SO ₂ CH ₃		
50 0	CH ₂ NH-	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃		
501	CH ₂ NH-	3-pyridyl	2-(aminosulfonyl)phenyl
	SO ₂ CH ₃		
50 2	CH ₂ NH-	3-pyridyl	2-(methylaminosulfonyl)phenyl
	SO ₂ CH ₃		
50 3	CH ₂ NH-	3-pyridyl	1-pyrrolidinocarbonyl
	SO ₂ CH ₃	2 Plindl	1 pyllolidinocalbonyl
504	CH ₂ NH-	3-pyridyl	2. (mothy) gul forul \ nh1
204	_	3-pyridyr	2-(methylsulfonyl)phenyl
505	SO ₂ CH ₃	2	
50 5	CH ₂ NH-	3-pyridyl	4-morpholino
504	SO ₂ CH ₃		
506	CH ₂ NH-	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	SO ₂ CH ₃		·
507	CH ₂ NH-	3-pyridyl	4-morpholinocarbonyl
	SO ₂ CH ₃		
50 8	CH ₂ NH-	3-pyridyl	2-methyl-1-imidazolyl
	SO ₂ CH ₃		
509	CH ₂ NH-	3-pyridyl	5-methyl-1-imidazolyl
	SO ₂ CH ₃	* · · · · · · · · · · · · · · · · · · ·	
51 0	CH ₂ NH-	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	SO ₂ CH ₃	5 pyrrayr	2 meenyisdiionyi-i-imidazoiyi
511	CH ₂ NH-	2-pyrimidyl	2 /2-1
211	_	z-pyrimiayi	2-(aminosulfonyl)phenyl
E10	SO ₂ CH ₃		0 (13 3 1 3 2 5 5 5 5 5
512	CH ₂ NH-	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	SO ₂ CH ₃		
51 3	CH ₂ NH-	2-pyrimidyl	1-pyrrolidinocarbonyl
	SO ₂ CH ₃		
514	CH ₂ NH-	2-pyrimidyl	2-(methylsulfonyl)phenyl
	SO ₂ CH ₃	_	_ · · · · · · · · · · · · · · · · · · ·
51 5	CH ₂ NH-	2-pyrimidyl	4-morpholino
	SO ₂ CH ₃	- <u>-</u>	
5 16	CH ₂ NH-	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
710	-	~-byr murdy r	z (r -cr3-cecrazor-z-yr)pnenyr
	SO ₂ CH ₃		

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	517	CH ₂ NH-	2-pyrimidyl	4-morpholinocarbonyl
		SO ₂ CH ₃		
	518	CH ₂ NH-	2-pyrimidyl	2-methyl-1-imidazolyl
		SO ₂ CH ₃		,
	519	CH ₂ NH-	2-pyrimidyl	5-methyl-1-imidazolyl
		SO ₂ CH ₃		, , , , , , , , , , , , , , , , , , ,
	520	CH ₂ NH-	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
		SO ₂ CH ₃		
•	521	CH ₂ NH-	5-pyrimidyl	2-(aminosulfonyl)phenyl
		SO ₂ CH ₃		,
	522	CH ₂ NH-	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
		SO ₂ CH ₃		,,
	52 3	CH ₂ NH-	5-pyrimidyl	1-pyrrolidinocarbonyl
		SO ₂ CH ₃		- F1
	524	CH ₂ NH-	5-pyrimidyl	2-(methylsulfonyl)phenyl
		SO ₂ CH ₃		= \ \ 2001 = 2011 1 2 / pilotij 1
	525	CH ₂ NH-	5-pyrimidyl	4-morpholino
		SO ₂ CH ₃		
	526	CH ₂ NH-	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
		SO ₂ CH ₃		, 5
	527	CH ₂ NH-	5-pyrimidyl	4-morpholinocarbonyl
		SO ₂ CH ₃		-
	528	CH ₂ NH-	5-pyrimidyl	2-methyl-1-imidazolyl
		SO ₂ CH ₃	_	-
	529	CH ₂ NH-	5-pyrimidyl	5-methyl-1-imidazolyl
		SO ₂ CH ₃		-
	530	CH ₂ NH-	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
_		SO ₂ CH ₃		· · · · · · · · · · · · · · · · · · ·
	531	CH ₂ NH-	2-Cl-phenyl	2-(aminosulfonyl)phenyl
		SO ₂ CH ₃		
	53 2	CH ₂ NH-	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
		SO ₂ CH ₃		_
	53 3	CH ₂ NH-	2-Cl-phenyl	1-pyrrolidinocarbonyl
		SO ₂ CH ₃		
	534	CH ₂ NH-	2-Cl-phenyl	2-(methylsulfonyl)phenyl
		SO_2CH_3		
	53 5	CH ₂ NH-	2-Cl-phenyl	4-morpholino
		SO ₂ CH ₃		
	536	CH ₂ NH-	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
		SO ₂ CH ₃		
	537	CH ₂ NH-	2-Cl-phenyl	4-morpholinocarbonyl
		SO ₂ CH ₃		
	538	CH ₂ NH-	2-Cl-phenyl	2-methyl-1-imidazolyl
		SO ₂ CH ₃		
	539	CH ₂ NH-	2-Cl-phenyl	5-methyl-1-imidazolyl
		SO ₂ CH ₃	_	
	540	CH ₂ NH-	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
_		SO ₂ CH ₃		

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	541	CH ₂ NH-	2-F-phenyl	2-(aminosulfonyl)phenyl
		SO ₂ CH ₃		
	54 2	CH ₂ NH- SO ₂ CH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	54 3	CH ₂ NH-	2-F-phenyl	1-pyrrolidinocarbonyl
		SO ₂ CH ₃		
	544	CH ₂ NH-	2-F-phenyl	2-(methylsulfonyl)phenyl
	- 4-	SO ₂ CH ₃		
	545	CH ₂ NH-	2-F-phenyl	4-morpholino
		SO ₂ CH ₃		
	546	CH ₂ NH-	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
		SO ₂ CH ₃		
	547	CH ₂ NH-	2-F-phenyl	4-morpholinocarbonyl
		SO ₂ CH ₃		
	54 8	CH ₂ NH-	2-F-phenyl	2-methyl-1-imidazolyl
		SO ₂ CH ₃		_
	549	CH ₂ NH-	2-F-phenyl	5-methyl-1-imidazolyl
		SO ₂ CH ₃		•
	5 50	CH ₂ NH-	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
		SO ₂ CH ₃		
	551	CH ₂ NH-	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
		SO ₂ CH ₃		
	552	CH ₂ NH-	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
		SO ₂ CH ₃		1
	55 3	CH ₂ NH-	2,6-diF-phenyl	1-pyrrolidinocarbonyl
		SO ₂ CH ₃		
	554	CH ₂ NH-	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
		SO ₂ CH ₃		
	555	CH ₂ NH-	2,6-diF-phenyl	4-morpholino
		SO ₂ CH ₃		- ·
	556	CH ₂ NH-	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
		SO_2CH_3		2 /1 /2/2
	557	CH ₂ NH-	2,6-diF-phenyl	4-morpholinocarbonyl
		SO ₂ CH ₃		- · · · · -
	558	CH ₂ NH-	2,6-diF-phenyl	2-methyl-1-imidazolyl
		SO ₂ CH ₃		- · · · · · · · · · · · · · · · · · · ·
	559	CH ₂ NH-	2,6-diF-phenyl	5-methyl-1-imidazolyl
		SO ₂ CH ₃	_	<u>.</u>
	560	CH ₂ NH-	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
		SO ₂ CH ₃	<u>-</u>	
_	561	Cl	phenyl	2-(aminosulfonyl)phenyl
	562	Cl	phenyl	2-(methylaminosulfonyl)phenyl
	563	Cl	phenyl	1-pyrrolidinocarbonyl
	564 565	Cl	phenyl	2-(methylsulfonyl)phenyl
	565 566	Cl Cl	phenyl	4-morpholino
	567	Cl	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	568	Cl	phenyl phenyl	4-morpholinocarbonyl 2-methyl-1-imidazolyl
	569	Cl	phenyl	5-methyl-1-imidazolyl
		-	E	o moony i i imidazotyi

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570	C1	phenyl	2-methylsulfonyl-1-imidazolyl
571	Cl	2-pyridyl	2-(aminosulfonyl)phenyl
572	Cl	2-pyridyl	2-(methylaminosulfonyl)phenyl
57 3	Cl	2-pyridyl	1-pyrrolidinocarbonyl
574	Cl	2-pyridyl	2-(methylsulfonyl)phenyl
575	Cl	2-pyridyl	4-morpholino
576	C1	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
577	Cl	2-pyridyl	4-morpholinocarbonyl
578	Cl	2-pyridyl	2-methyl-1-imidazolyl
579	Č1	2-pyridyl	5-methyl-1-imidazolyl
580	C1	2-pyridyl	2-methylsulfonyl-1-imidazolyl
581	Cl	3-pyridyl	2-(aminosulfonyl)phenyl
582	Cl	3-pyridyl	2-(methylaminosulfonyl)phenyl
583	Cl	3-pyridyl	1-pyrrolidinocarbonyl
584	Cl	3-pyridyl	2-(methylsulfonyl)phenyl
585	Cl	3-pyridyl	4-morpholino
586	Cl	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
587	Cl	3-pyridyl	4-morpholinocarbonyl
588	Cl	3-pyridyl	2-methyl-1-imidazolyl
589	Cl	3-pyridyl	5-methyl-1-imidazolyl
590	Cl	3-pyridyl	2-methylsulfonyl-1-imidazolyl
<u> 591</u>	Cl	2-pyrimidyl	2-(aminosulfonyl)phenyl
592	Cl	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
593	Cl	2-pyrimidyl	1-pyrrolidinocarbonyl
59 4	Cl	2-pyrimidyl	2-(methylsulfonyl)phenyl
595	Cl	2-pyrimidyl	4-morpholino
596	Cl	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
597	Cl	2-pyrimidyl	4-morpholinocarbonyl
598	Cl	2-pyrimidyl	2-methyl-1-imidazolyl
599	Cl	2-pyrimidyl	5-methyl-1-imidazolyl
600	Cl	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
601	Cl	5-pyrimidyl	2-(aminosulfonyl)phenyl
602	Cl	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
603	Cl	5-pyrimidyl	1-pyrrolidinocarbonyl
604	Čĺ	5-pyrimidyl	2-(methylsulfonyl)phenyl
605	Cl	5-pyrimidyl	4-morpholino
606	Cl	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
607	Cl	5-pyrimidyl	4-morpholinocarbonyl
608	Cl	5-pyrimidyl	2-methyl-1-imidazolyl
609	Cl	5-pyrimidyl	5-methyl-1-imidazolyl
610	Cl	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
611	Cl	2-Cl-phenyl	2-(aminosulfonyl)phenyl
612	Cl	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
613	Cl	2-Cl-phenyl	1-pyrrolidinocarbonyl
614	Cl	2-Cl-phenyl	2-(methylsulfonyl)phenyl
615	Cl	2-Cl-phenyl	4-morpholino
616	Cl	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
617	Cl	2-Cl-phenyl	4-morpholinocarbonyl
618	Cl	2-C1-phenyl	2-methyl-1-imidazolyl
619	Cl	2-C1-phenyl	5-methyl-1-imidazolyl
_620	Cl .	2-C1-phenyl	2-methylsulfonyl-1-imidazolyl
621	Cl	2-F-phenyl	2-(aminosulfonyl)phenyl
622	Cl	2-r-phenyl 2-r-phenyl	2-(aminosulfonyl)phenyl 2-(methylaminosulfonyl)phenyl
623	Cl	2-F-phenyl	1-pyrrolidinocarbonyl
624	Cl	2-F-phenyl	2-(methylsulfonyl)phenyl
024	CI	z-r-buenyi	5 (me cult rager routh r) bitetia r

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625	Cl	2-F-phenyl	4-morpholino
626	Cl	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
627	Cl	2-F-phenyl	4-morpholinocarbonyl
628	Cl	2-F-phenyl	2-methyl-1-imidazolyl
629	Cl	2-F-phenyl	5-methyl-1-imidazolyl
630	Cl	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
631	Cl	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
632	Cl	2,6-dif-phenyl	2-(methylaminosulfonyl)phenyl
633	Cl	2,6-dif-phenyl	1-pyrrolidinocarbonyl
634	Cl	2,6-dif-phenyl	2-(methylsulfonyl)phenyl
635	Cl	2,6-dif-phenyl	4-morpholino
636	Cl	2,6-dif-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
637	Cl		
638		2,6-diF-phenyl	4-morpholinocarbonyl
	Cl	2,6-diF-phenyl	2-methyl-1-imidazolyl
639 640	Cl	2,6-diF-phenyl	5-methyl-1-imidazolyl
640	<u>C1</u>	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
641	F	phenyl	2-(aminosulfonyl)phenyl
642	F.	phenyl	2-(methylaminosulfonyl)phenyl
643	F	phenyl	1-pyrrolidinocarbonyl
644	F	phenyl	2-(methylsulfonyl)phenyl
645	F	phenyl	4-morpholino
646	F	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
647	F	phenyl	4-morpholinocarbonyl
648	F	phenyl	2-methyl-1-imidazolyl
649	F	phenyl	5-methyl-1-imidazolyl
<u>650</u>	F	phenyl	2-methylsulfonyl-1-imidazolyl
651	F	2-pyridyl	2-(aminosulfonyl)phenyl
652	F	2-pyridyl	2-(methylaminosulfonyl)phenyl
653	F	2-pyridyl	1-pyrrolidinocarbonyl
654	F	2-pyridyl	2-(methylsulfonyl)phenyl
655	F	2-pyridyl	4-morpholino
656	F	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
657	F	2-pyridyl	4-morpholinocarbonyl
658	F	2-pyridyl	2-methyl-1-imidazolyl
659	F	2-pyridyl	5-methyl-1-imidazolyl
660	F	2-pyridyl	2-methylsulfonyl-1-imidazolyl
661	F	3-pyridyl	2-(aminosulfonyl)phenyl
662	F	3-pyridyl	2-(methylaminosulfonyl)phenyl
663	F	3-pyridyl	1-pyrrolidinocarbonyl
664	F	3-pyridyl	2-(methylsulfonyl)phenyl
665	F	3-pyridyl	4-morpholino
666	F	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
667	F	3-pyridyl	4-morpholinocarbonyl
668	F	3-pyridyl	2-methyl-1-imidazolyl
669	F	3-pyridyl	5-methyl-1-imidazolyl
<u>670</u>	F	3-pyridyl	2-methylsulfonyl-1-imidazolyl
671	F	2-pyrimidyl	2-(aminosulfonyl)phenyl
672	F	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
673	F	2-pyrimidyl	1-pyrrolidinocarbonyl
674	F	2-pyrimidyl	2-(methylsulfonyl)phenyl
67 5	F	2-pyrimidyl	4-morpholino
676	F	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
677	F	2-pyrimidyl	4-morpholinocarbonyl
678	F	2-pyrimidyl	2-methyl-1-imidazolyl
679	F	2-pyrimidyl	5-methyl-1-imidazolyl

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	680	F	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	681	F	5-pyrimidyl	2-(aminosulfonyl)phenyl
	682	F	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	683	F	5-pyrimidyl	1-pyrrolidinocarbonyl
	684	F	5-pyrimidyl	2-(methylsulfonyl)phenyl
	685	F	5-pyrimidyl	4-morpholino
	686	F	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	687	F	5-pyrimidyl	4-morpholinocarbonyl
	688	F	5-pyrimidyl	2-methyl-1-imidazolyl
	689	F	5-pyrimidyl	5-methyl-1-imidazolyl
	690	F	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	691	F	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	692	$\ddot{\mathbf{F}}$	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	693	F	2-Cl-phenyl	1-pyrrolidinocarbonyl
	694	F	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	695	F	2-Cl-phenyl	4-morpholino
	696	F	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	697	F	2-Cl-phenyl	4-morpholinocarbonyl
	698	F	2-Cl-phenyl	2-methyl-1-imidazolyl
	699	F	2-Cl-phenyl	5-methyl-1-imidazolyl
	700	F	2-C1-phenyl	2-methylsulfonyl-1-imidazolyl
•	701	F	2-F-phenyl	2-(aminosulfonyl)phenyl
	702	F	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	703	F	2-F-phenyl	1-pyrrolidinocarbonyl
	704	F	2-F-phenyl	2-(methylsulfonyl)phenyl
	705	F	2-F-phenyl	4-morpholino
	706	F	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	707	F	2-F-phenyl	4-morpholinocarbonyl
	708	F	2-F-phenyl	2-methyl-1-imidazolyl
	709	F	2-F-phenyl	5-methyl-1-imidazolyl
_	710	F	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
	711	F	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
	712	F	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	713	F	2,6-diF-phenyl	1-pyrrolidinocarbonyl
	714	F	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
	715	F	2,6-diF-phenyl	4-morpholino
	716	F	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	717	F	2,6-diF-phenyl	4-morpholinocarbonyl
	718	F	2,6-diF-phenyl	2-methyl-1-imidazolyl
	719	F	2,6-diF-phenyl	5-methyl-1-imidazolyl
_	720	F	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	721	CO_2CH_3	phenyl	2-(aminosulfonyl)phenyl
	722	CO ₂ CH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	723	CO ₂ CH ₃	phenyl	1-pyrrolidinocarbonyl
	724	CO ₂ CH ₃	phenyl	2-(methylsulfonyl)phenyl
	725	CO ₂ CH ₃		
			phenyl	4-morpholino
	726	CO ₂ CH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	727	CO_2CH_3	phenyl	4-morpholinocarbonyl
	728	CO ₂ CH ₃	phenyl	2-methyl-1-imidazolyl
	729	CO2CH3	phenyl	5-methyl-1-imidazolyl
	730	CO ₂ CH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
-	731	CO ₂ CH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	732			
	134	CO ₂ CH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl

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	733	CO ₂ CH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	734	CO_2CH_3	2-pyridyl	2-(methylsulfonyl)phenyl
	735	CO_2CH_3	2-pyridyl	4-morpholino
	736	CO ₂ CH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	737	CO_2CH_3	2-pyridyl	4-morpholinocarbonyl
	738	CO ₂ CH ₃	2-pyridyl	2-methyl-1-imidazolyl
	739	CO ₂ CH ₃	2-pyridyl	5-methyl-1-imidazolyl
	74 0	CO_2CH_3	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	741	CO ₂ CH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	742	CO ₂ CH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	743	CO ₂ CH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	744	CO ₂ CH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	74 5	CO ₂ CH ₃	3-pyridyl	4-morpholino
	746	CO ₂ CH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	747	CO ₂ CH ₃	3-pyridyl	4-morpholinocarbonyl
	74 8	CO ₂ CH ₃	3-pyridyl	2-methyl-1-imidazolyl
	749	CO ₂ CH ₃	3-pyridyl	5-methyl-1-imidazolyl
	750	CO_2CH_3	3-pyridyl	2-methylsulfonyl-1-imidazolyl
•	751	CO ₂ CH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
	752	CO ₂ CH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	753	CO ₂ CH ₃	2-pyrimidyl	1-pyrrolidinocarbonyl
	754	CO ₂ CH ₃	2-pyrimidyl	2-(methylsulfonyl)phenyl
	75 5	CO ₂ CH ₃	2-pyrimidyl	4-morpholino
	756	CO ₂ CH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	757	CO ₂ CH ₃	2-pyrimidyl	4-morpholinocarbonyl
	758	CO ₂ CH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
	759	CO ₂ CH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
	760	CO ₂ CH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
-	761	CO ₂ CH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
	762	CO ₂ CH ₃	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	763	CO ₂ CH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
	764	CO ₂ CH ₃	5-pyrimidyl	2-(methylsulfonyl)phenyl
	765	CO ₂ CH ₃	5-pyrimidyl	4-morpholino
	766	CO ₂ CH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	767	CO ₂ CH ₃	5-pyrimidyl	4-morpholinocarbonyl
	76 8	CO ₂ CH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
	769	CO ₂ CH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
	770	CO ₂ CH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
_	771	CO ₂ CH ₃	2-Cl-phenyl	2-(aminosulfonyl)phenyl
	772	CO ₂ CH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
	77 3	CO ₂ CH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
	774	CO ₂ CH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
	775	CO ₂ CH ₃	2-Cl-phenyl	4-morpholino
	776	CO ₂ CH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	77 7	CO ₂ CH ₃	2-Cl-phenyl	4-morpholinocarbonyl
	778	CO ₂ CH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
	779	CO ₂ CH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
	780	CO ₂ CH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
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	781	CO ₂ CH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
	782	CO_2CH_3	2-F-phenyl	2-(methylaminosulfonyl)phenyl
	783	CO ₂ CH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
	784	CO ₂ CH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
	785	CO ₂ CH ₃	2-F-phenyl	4-morpholino
	786	CO_2CH_3	2-F-phenyl	2-(1'-CF3-tetrazol-2-y1)phenyl
	787	CO_2CH_3	2-F-phenyl	4-morpholinocarbonyl
	788	CO ₂ CH ₃	2-F-phenyl	2-methyl-1-imidazolyl
	789	CO ₂ CH ₃	2-F-phenyl	5-methyl-1-imidazolyl
	790	CO ₂ CH ₃	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
•	791	CO ₂ CH ₃	2,6-diF-phenyl	
	79 2	CO ₂ CH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
	79 3	CO ₂ CH ₃	2,6-diF-phenyl	
	794	CO ₂ CH ₃	2,6-diF-phenyl	
	795	CO ₂ CH ₃	2,6-diF-phenyl	4-morpholino
	796	CO ₂ CH ₃		2-(1'-CF3-tetrazol-2-yl)phenyl
	797	CO ₂ CH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	79 8	CO ₂ CH ₃	2,6-diF-phenyl	
	79 9	CO_2CH_3	2,6-diF-phenyl	5-methyl-1-imidazolyl
	800	CO ₂ CH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
-	801	CH ₂ OCH ₃	phenyl	2-(aminosulfonyl)phenyl
	802	CH ₂ OCH ₃	phenyl	2-(methylaminosulfonyl)phenyl
	803	CH ₂ OCH ₃	phenyl	1-pyrrolidinocarbonyl
	804	CH ₂ OCH ₃	phenyl	2-(methylsulfonyl)phenyl
	805	CH ₂ OCH ₃	phenyl	4-morpholino
	806	CH ₂ OCH ₃	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	807	CH ₂ OCH ₃	phenyl	4-morpholinocarbonyl
	808	CH ₂ OCH ₃	phenyl	2-methyl-1-imidazolyl
	809	CH ₂ OCH ₃	phenyl	5-methyl-1-imidazolyl
_	810	CH ₂ OCH ₃	phenyl	2-methylsulfonyl-1-imidazolyl
	811	CH ₂ OCH ₃	2-pyridyl	2-(aminosulfonyl)phenyl
	812	CH ₂ OCH ₃	2-pyridyl	2-(methylaminosulfonyl)phenyl
	813	CH ₂ OCH ₃	2-pyridyl	1-pyrrolidinocarbonyl
	814	CH ₂ OCH ₃	2-pyridyl	2-(methylsulfonyl)phenyl
	815	CH ₂ OCH ₃	2-pyridyl	4-morpholino
	816	CH ₂ OCH ₃	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	817	CH ₂ OCH ₃	2-pyridyl	4-morpholinocarbonyl
	818	CH ₂ OCH ₃	2-pyridyl	2-methyl-1-imidazolyl
	819	CH ₂ OCH ₃	2-pyridyl	5-methyl-1-imidazolyl
	820	CH ₂ OCH ₃	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	821	CH ₂ OCH ₃	3-pyridyl	2-(aminosulfonyl)phenyl
	822	CH ₂ OCH ₃	3-pyridyl	2-(methylaminosulfonyl)phenyl
	823	CH ₂ OCH ₃	3-pyridyl	1-pyrrolidinocarbonyl
	824	CH ₂ OCH ₃	3-pyridyl	2-(methylsulfonyl)phenyl
	825	CH ₂ OCH ₃	3-pyridyl	4-morpholino
	826	CH ₂ OCH ₃	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	827	CH ₂ OCH ₃	3-pyridyl	4-morpholinocarbonyl
	828	CH ₂ OCH ₃	3-pyridyl	2-methyl-1-imidazolyl
		=	_	

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829	CH ₂ OCH ₃	3-pyridyl	5-methyl-1-imidazolyl
830	CH ₂ OCH ₃	3-pyridyl	2-methylsulfonyl-1-imidazolyl
831	CH ₂ OCH ₃	2-pyrimidyl	2-(aminosulfonyl)phenyl
832	CH ₂ OCH ₃	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
83 3	CH ₂ OCH ₃		1-pyrrolidinocarbonyl
834	CH ₂ OCH ₃	_	2-(methylsulfonyl)phenyl
835	CH ₂ OCH ₃	- -	4-morpholino
836	CH ₂ OCH ₃	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
837	CH ₂ OCH ₃	2-pyrimidyl	4-morpholinocarbonyl
838	CH ₂ OCH ₃	2-pyrimidyl	2-methyl-1-imidazolyl
839	CH ₂ OCH ₃	2-pyrimidyl	5-methyl-1-imidazolyl
840	CH ₂ OCH ₃	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
841	CH ₂ OCH ₃	5-pyrimidyl	2-(aminosulfonyl)phenyl
842	CH ₂ OCH ₃		2-(methylaminosulfonyl)phenyl
843	CH ₂ OCH ₃	5-pyrimidyl	1-pyrrolidinocarbonyl
844	CH ₂ OCH ₃		2-(methylsulfonyl)phenyl
845	CH ₂ OCH ₃	5-pyrimidyl	4-morpholino
846	CH ₂ OCH ₃	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
847	CH ₂ OCH ₃	5-pyrimidyl	4-morpholinocarbonyl
84 8	CH ₂ OCH ₃	5-pyrimidyl	2-methyl-1-imidazolyl
84 9	CH ₂ OCH ₃	5-pyrimidyl	5-methyl-1-imidazolyl
850	CH ₂ OCH ₃	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
851	CH ₂ OCH ₃	2-C1-phenyl	2-(aminosulfonyl)phenyl
852	CH ₂ OCH ₃	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
853	CH ₂ OCH ₃	2-Cl-phenyl	1-pyrrolidinocarbonyl
854	CH ₂ OCH ₃	2-Cl-phenyl	2-(methylsulfonyl)phenyl
85 5	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholino
856	CH ₂ OCH ₃	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
857	CH ₂ OCH ₃	2-Cl-phenyl	4-morpholinocarbonyl
85 8	CH ₂ OCH ₃	2-Cl-phenyl	2-methyl-1-imidazolyl
859	CH ₂ OCH ₃	2-Cl-phenyl	5-methyl-1-imidazolyl
860	CH ₂ OCH ₃	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
861	CH ₂ OCH ₃	2-F-phenyl	2-(aminosulfonyl)phenyl
862	CH ₂ OCH ₃	2-F-phenyl	2-(methylaminosulfonyl)phenyl
863	CH ₂ OCH ₃	2-F-phenyl	1-pyrrolidinocarbonyl
864	CH ₂ OCH ₃	2-F-phenyl	2-(methylsulfonyl)phenyl
865	CH ₂ OCH ₃	2-F-phenyl	4-morpholino
86 6	CH ₂ OCH ₃	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
867	CH ₂ OCH ₃	2-F-phenyl	4-morpholinocarbonyl
86 8	CH ₂ OCH ₃	2-F-phenyl	2-methyl-1-imidazolyl
869	CH ₂ OCH ₃	2-F-phenyl	5-methyl-1-imidazolyl
870	CH ₂ OCH ₃		2-methylsulfonyl-1-imidazolyl
871	CH ₂ OCH ₃	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
872	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
873	CH ₂ OCH ₃	2,6-diF-phenyl	1-pyrrolidinocarbonyl
874	CH ₂ OCH ₃	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
875	CH ₂ OCH ₃	2,6-diF-phenyl	4-morpholino
876	CH ₂ OCH ₃	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
			_

	877	CH ₂ OCH ₃	2,6-diF-phenyl	4-morpholinocarbonyl
	878	CH ₂ OCH ₃	2,6-diF-phenyl	2-methyl-1-imidazolyl
	879	CH ₂ OCH ₃	2,6-diF-phenyl	5-methyl-1-imidazolyl
	880	CH ₂ OCH ₃	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl
	881	CONH ₂	phenyl	2-(aminosulfonyl)phenyl
	882	CONH ₂	phenyl	2-(methylaminosulfonyl)phenyl
	883	CONH ₂	phenyl	1-pyrrolidinocarbonyl
	884	CONH ₂	phenyl	2-(methylsulfonyl)phenyl
	885	CONH ₂	phenyl	4-morpholino
	886	CONH ₂	phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	887	CONH ₂	phenyl	4-morpholinocarbonyl
	888	CONH ₂	phenyl	2-methyl-1-imidazolyl
	889	CONH ₂	phenyl	5-methyl-1-imidazolyl
	890	CONH ₂	phenyl	2-methylsulfonyl-1-imidazolyl
	891	CONH ₂	2-pyridyl	2-(aminosulfonyl)phenyl
	892	CONH ₂	2-pyridyl	2-(methylaminosulfonyl)phenyl
	893	CONH ₂	2-pyridyl	1-pyrrolidinocarbonyl
	894	CONH ₂	2-pyridyl	2-(methylsulfonyl)phenyl
	895	CONH ₂	2-pyridyl	4-morpholino
	896	CONH ₂	2-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	897	CONH ₂	2-pyridyl	4-morpholinocarbonyl
	898	CONH ₂	2-pyridyl	2-methyl-1-imidazolyl
	899	CONH ₂	2-pyridyl	5-methyl-1-imidazolyl
	900	CONH ₂	2-pyridyl	2-methylsulfonyl-1-imidazolyl
	901	CONH ₂	3-pyridyl	2-(aminosulfonyl)phenyl
	902	CONH ₂	3-pyridyl	2-(methylaminosulfonyl)phenyl
	903	CONH ₂	3-pyridyl	1-pyrrolidinocarbonyl
	904	CONH ₂	3-pyridyl	2-(methylsulfonyl)phenyl
	905	CONH ₂	3-pyridyl	4-morpholino
	906	CONH ₂	3-pyridyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	907	CONH ₂	3-pyridyl	4-morpholinocarbonyl
	908	CONH ₂	3-pyridyl	2-methyl-1-imidazolyl
	909	CONH ₂	3-pyridyl	5-methyl-1-imidazolyl
_	910	CONH ₂	3-pyridyl	2-methylsulfonyl-1-imidazolyl
	911	CONH ₂	2-pyrimidyl	2-(aminosulfonyl)phenyl
	912	CONH ₂	2-pyrimidyl	2-(methylaminosulfonyl)phenyl
	913	CONH ₂	2-pyrimidyl	1-pyrrolidinocarbonyl
	914	CONH ₂	2-pyrimidyl	2-(methylsulfonyl)phenyl
	915	CONH ₂	2-pyrimidyl	4-morpholino
	916	CONH ₂	2-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
	917	CONH ₂	2-pyrimidyl	4-morpholinocarbonyl
	918	CONH ₂	2-pyrimidyl	2-methyl-1-imidazolyl
	919	CONH ₂	2-pyrimidyl	5-methyl-1-imidazolyl
_	920	CONH ₂	2-pyrimidyl	2-methylsulfonyl-1-imidazolyl
	921	CONH ₂	5-pyrimidyl	2-(aminosulfonyl)phenyl
	922	CONH ₂	5-pyrimidyl	2-(methylaminosulfonyl)phenyl
	923	CONH ₂	5-pyrimidyl	1-pyrrolidinocarbonyl
	924	CONH ₂	5-pyrimidyl	2-(methylsulfonyl)phenyl

925	$CONH_2$	5-pyrimidyl	4-morpholino
926	$CONH_2$	5-pyrimidyl	2-(1'-CF3-tetrazol-2-yl)phenyl
927	$CONH_2$	5-pyrimidyl	4-morpholinocarbonyl
928	$CONH_2$	5-pyrimidyl	2-methyl-1-imidazolyl
929	$CONH_2$	5-pyrimidyl	5-methyl-1-imidazolyl
930	CONH ₂	5-pyrimidyl	2-methylsulfonyl-1-imidazolyl
931	CONH ₂	2-Cl-phenyl	2-(aminosulfonyl)phenyl
932	CONH ₂	2-Cl-phenyl	2-(methylaminosulfonyl)phenyl
933	CONH ₂	2-Cl-phenyl	1-pyrrolidinocarbonyl
934	CONH ₂	2-Cl-phenyl	2-(methylsulfonyl)phenyl
935	CONH ₂	2-Cl-phenyl	4-morpholino
936	CONH ₂	2-Cl-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
937	$CONH_2$	2-Cl-phenyl	4-morpholinocarbonyl
938	$CONH_2$	2-Cl-phenyl	2-methyl-1-imidazolyl
939	$CONH_2$	2-Cl-phenyl	5-methyl-1-imidazolyl
940	CONH ₂	2-Cl-phenyl	2-methylsulfonyl-1-imidazolyl
941	CONH ₂	2-F-phenyl	2-(aminosulfonyl)phenyl
942	CONH ₂	2-F-phenyl	2-(methylaminosulfonyl)phenyl
943	$CONH_2$	2-F-phenyl	1-pyrrolidinocarbonyl
944	$CONH_2$	2-F-phenyl	2-(methylsulfonyl)phenyl
945	CONH ₂	2-F-phenyl	4-morpholino
946	CONH ₂	2-F-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
947	CONH ₂	2-F-phenyl	4-morpholinocarbonyl
948	CONH ₂	2-F-phenyl	2-methyl-1-imidazolyl
949	$CONH_2$	2-F-phenyl	5-methyl-1-imidazolyl
950	CONH ₂	2-F-phenyl	2-methylsulfonyl-1-imidazolyl
951	$CONH_2$	2,6-diF-phenyl	2-(aminosulfonyl)phenyl
952	$CONH_2$	2,6-diF-phenyl	2-(methylaminosulfonyl)phenyl
953	CONH ₂	2,6-diF-phenyl	1-pyrrolidinocarbonyl
954	$CONH_2$	2,6-diF-phenyl	2-(methylsulfonyl)phenyl
955	$CONH_2$	2,6-diF-phenyl	4-morpholino
956	CONH ₂	2,6-diF-phenyl	2-(1'-CF3-tetrazol-2-yl)phenyl
957	CONH ₂	2,6-diF-phenyl	4-morpholinocarbonyl
958	CONH ₂	2,6-diF-phenyl	2-methyl-1-imidazolyl
959	CONH ₂	2,6-diF-phenyl	5-methyl-1-imidazolyl
960	CONH ₂	2,6-diF-phenyl	2-methylsulfonyl-1-imidazolyl

Utility

The compounds of this invention are useful as anticoagulants for the treatment or prevention of thromboembolic disorders in mammals. The term "thromboembolic disorders" as used herein includes arterial or venous cardiovascular or cerebrovascular thromboembolic disorders, including, for example, unstable angina, first or recurrent myocardial infarction, ischemic sudden death, transient ischemic attack, stroke, atherosclerosis, venous thrombosis, deep vein thrombosis, thrombophlebitis, arterial embolism, coronary and cerebral arterial thrombosis, cerebral embolism, kidney embolisms, and pulmonary embolisms. The anticoagulant effect of compounds of the present invention is believed to be due to inhibition of factor Xa or thrombin.

The effectiveness of compounds of the present invention as inhibitors of factor Xa was determined using purified human factor Xa and synthetic substrate. The rate of factor Xa hydrolysis of chromogenic substrate S2222 (Kabi Pharmacia, Franklin, OH) was measured both in the absence and presence of compounds of the present invention. Hydrolysis of the substrate resulted in the release of pNA, which was monitored spectrophotometrically by measuring the increase in absorbance at 405 nM. A decrease in the rate of absorbance change at 405 nm in the presence of inhibitor is indicative of enzyme inhibition. The results of this assay are expressed as inhibitory constant, Ki.

Factor Xa determinations were made in 0.10 M sodium phosphate buffer, pH 7.5, containing 0.20 M NaCl, and 0.5 % PEG 8000. The Michaelis constant, $K_{\rm m}$, for substrate hydrolysis was determined at 25°C using the method of Lineweaver and Burk. Values of $K_{\rm i}$ were determined by allowing 0.2-0.5 nM human factor Xa (Enzyme Research Laboratories, South Bend, IN) to react with the substrate (0.20 mM-1 mM) in the presence of inhibitor. Reactions were allowed to go for 30 minutes and the velocities (rate of absorbance change vs time) were measured in the time frame of 25-30 minutes. The following relationship was used to calculate $K_{\rm i}$ values:

$$(v_0-v_s)/v_s = I/(K_i (1 + S/K_m))$$

where:

 v_0 is the velocity of the control in the absence of inhibitor;

vs is the velocity in the presence of inhibitor;

I is the concentration of inhibitor;

Ki is the dissociation constant of the enzyme:inhibitor
 complex;

S is the concentration of substrate;

Km is the Michaelis constant.

Using the methodology described above, a number of compounds of the present invention were found to exhibit a $\rm K_i$ of ${\leq}10~\mu M$, thereby confirming the utility of the compounds of the present invention as effective Xa inhibitors.

The antithrombotic effect of compounds of the present invention can be demonstrated in a rabbit arterio-venous (AV) shunt thrombosis model. In this model, rabbits weighing 2-3 kg anesthetized with a mixture of xylazine (10 mg/kg i.m.) and ketamine (50 mg/kg i.m.) are used. A saline-filled AV shunt device is connected between the femoral arterial and the femoral venous cannulae. The AV shunt device consists of a piece of 6-cm tygon tubing which contains a piece of silk thread. Blood will flow from the femoral artery via the AVshunt into the femoral vein. The exposure of flowing blood to a silk thread will induce the formation of a significant thrombus. After forty minutes, the shunt is disconnected and the silk thread covered with thrombus is weighed. Test agents or vehicle will be given (i.v., i.p., s.c., or orally) prior to the opening of the AV shunt. The percentage inhibition of thrombus formation is determined for each treatment group. The ID50 values (dose which produces 50% inhibition of thrombus formation) are estimated by linear regression.

The compounds of formula (I) may also be useful as inhibitors of serine proteases, notably human thrombin, plasma kallikrein and plasmin. Because of their inhibitory action, these compounds are indicated for use in the prevention or treatment of physiological reactions, blood coagulation and inflammation, catalyzed by the aforesaid class of enzymes. Specifically, the compounds have utility as drugs for the

treatment of diseases arising from elevated thrombin activity such as myocardial infarction, and as reagents used as anticoagulants in the processing of blood to plasma for diagnostic and other commercial purposes.

Some compounds of the present invention were shown to be direct acting inhibitors of the serine protease thrombin by their ability to inhibit the cleavage of small molecule substrates by thrombin in a purified system. In vitro inhibition constants were determined by the method described by Kettner et al. in J. Biol. Chem. 265, 18289-18297 (1990), herein incorporated by reference. In these assays, thrombinmediated hydrolysis of the chromogenic substrate S2238 (Helena Laboratories, Beaumont, TX) was monitored spectrophotometrically. Addition of an inhibitor to the assay mixture results in decreased absorbance and is indicative of thrombin inhibition. Human thrombin (Enzyme Research Laboratories, Inc., South Bend, IN) at a concentration of 0.2 nM in 0.10 M sodium phosphate buffer, pH 7.5, 0.20 M NaCl, and 0.5% PEG 6000, was incubated with various substrate concentrations ranging from 0.20 to 0.02 mM. After 25 to 30 minutes of incubation, thrombin activity was assayed by monitoring the rate of increase in absorbance at 405 nm which arises owing to substrate hydrolysis. Inhibition constants were derived from reciprocal plots of the reaction velocity as a function of substrate concentration using the standard method of Lineweaver and Burk. Using the methodology described above, some compounds of this invention were evaluated and found to exhibit a K_i of less than 10 μ m, thereby confirming the utility of the compounds of the present invention as effective Xa inhibitors.

The compounds of the present invention can be administered alone or in combination with one or more additional therapeutic agents. These include other anticoagulant or coagulation inhibitory agents, anti-platelet or platelet inhibitory agents, thrombin inhibitors, or thrombolytic or fibrinolytic agents.

The compounds are administered to a mammal in a therapeutically effective amount. By "therapeutically

effective amount" it is meant an amount of a compound of Formula I that, when administered alone or in combination with an additional therapeutic agent to a mammal, is effective to prevent or ameliorate the thromboembolic disease condition or the progression of the disease.

By "administered in combination" or "combination therapy" it is meant that the compound of Formula I and one or more additional therapeutic agents are administered concurrently to the mammal being treated. When administered in combination each component may be administered at the same time or sequentially in any order at different points in time. Thus, each component may be administered separately but sufficiently closely in time so as to provide the desired therapeutic effect. Other anticoagulant agents (or coagulation inhibitory agents) that may be used in combination with the compounds of this invention include warfarin and heparin, as well as other factor Xa inhibitors such as those described in the publications identified above under Background of the Invention.

The term anti-platelet agents (or platelet inhibitory agents), as used herein, denotes agents that inhibit platelet function such as by inhibiting the aggregation, adhesion or granular secretion of platelets. Such agents include, but are not limited to, the various known non-steroidal antiinflammatory drugs (NSAIDS) such as aspirin, ibuprofen, naproxen, sulindac, indomethacin, mefenamate, droxicam, diclofenac, sulfinpyrazone, and piroxicam, including pharmaceutically acceptable salts or prodrugs thereof. Of the NSAIDS, aspirin (acetylsalicyclic acid or ASA), and piroxicam are preferred. Other suitable anti-platelet agents include ticlopidine, including pharmaceutically acceptable salts or prodrugs thereof. Ticlopidine is also a preferred compound since it is known to be gentle on the gastro-intestinal tract in use. Still other suitable platelet inhibitory agents include IIb/IIIa antagonists, thromboxane-A2-receptor antagonists and thromboxane-A2-synthetase inhibitors, as well as pharmaceutically acceptable salts or prodrugs thereof.

The term thrombin inhibitors (or anti-thrombin agents), as used herein, denotes inhibitors of the serine protease thrombin. By inhibiting thrombin, various thrombin-mediated processes, such as thrombin-mediated platelet activation (that is, for example, the aggregation of platelets, and/or the granular secretion of plasminogen activator inhibitor-1 and/or serotonin) and/or fibrin formation are disrupted. A number of thrombin inhibitors are known to one of skill in the art and these inhibitors are contemplated to be used in combination with the present compounds. Such inhibitors include, but are not limited to, boroarginine derivatives, boropeptides, heparins, hirudin and argatroban, including pharmaceutically acceptable salts and prodrugs thereof. Boroarginine derivatives and boropeptides include N-acetyl and peptide derivatives of boronic acid, such as C-terminal a-aminoboronic acid derivatives of lysine, ornithine, arginine, homoarginine and corresponding isothiouronium analogs thereof. hirudin, as used herein, includes suitable derivatives or analogs of hirudin, referred to herein as hirulogs, such as disulfatohirudin. Boropeptide thrombin inhibitors include compounds described in Kettner et al., U.S. Patent No. 5,187,157 and European Patent Application Publication Number 293 881 A2, the disclosures of which are hereby incorporated herein by reference. Other suitable boroarginine derivatives and boropeptide thrombin inhibitors include those disclosed in PCT Application Publication Number 92/07869 and European Patent Application Publication Number 471,651 A2, the disclosures of which are hereby incorporated herein by reference.

The term thrombolytics (or fibrinolytic) agents (or thrombolytics or fibrinolytics), as used herein, denotes agents that lyse blood clots (thrombi). Such agents include tissue plasminogen activator, anistreplase, urokinase or streptokinase, including pharmaceutically acceptable salts or prodrugs thereof. The term anistreplase, as used herein, refers to anisoylated plasminogen streptokinase activator complex, as described, for example, in European Patent Application No. 028,489, the disclosure of which is hereby

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incorporated herein by reference herein. The term urokinase, as used herein, is intended to denote both dual and single chain urokinase, the latter also being referred to herein as prourokinase.

Administration of the compounds of Formula I of the invention in combination with such additional therapeutic agent, may afford an efficacy advantage over the compounds and agents alone, and may do so while permitting the use of lower doses of each. A lower dosage minimizes the potential of side effects, thereby providing an increased margin of safety.

The compounds of the present invention are also useful as standard or reference compounds, for example as a quality standard or control, in tests or assays involving the inhibition of factor Xa. Such compounds may be provided in a commercial kit, for example, for use in pharmaceutical research involving factor Xa. For example, a compound of the present invention could be used as a reference in an assay to compare its known activity to a compound with an unknown activity. This would ensure the experimenter that the assay was being performed properly and provide a basis for comparison, especially if the test compound was a derivative of the reference compound. When developing new assays or protocols, compounds according to the present invention could be used to test their effectiveness.

The compounds of the present invention may also be used in diagnostic assays involving factor Xa. For example, the presence of factor Xa in an unknown sample could be determined by addition of chromogenic substrate S2222 to a series of solutions containing test sample and optionally one of the compounds of the present invention. If production of pNA is observed in the solutions containing test sample, but no compound of the present invention, then one would conclude factor Xa was present.

Dosage and Formulation

The compounds of this invention can be administered in such oral dosage forms as tablets, capsules (each of which includes sustained release or timed release formulations),

pills, powders, granules, elixirs, tinctures, suspensions, syrups, and emulsions. They may also be administered in intravenous (bolus or infusion), intraperitoneal, subcutaneous, or intramuscular form, all using dosage forms well known to those of ordinary skill in the pharmaceutical arts. They can be administered alone, but generally will be administered with a pharmaceutical carrier selected on the basis of the chosen route of administration and standard pharmaceutical practice.

The dosage regimen for the compounds of the present invention will, of course, vary depending upon known factors, such as the pharmacodynamic characteristics of the particular agent and its mode and route of administration; the species, age, sex, health, medical condition, and weight of the recipient; the nature and extent of the symptoms; the kind of concurrent treatment; the frequency of treatment; the route of administration, the renal and hepatic function of the patient, and the effect desired. A physician or veterinarian can determine and prescribe the effective amount of the drug required to prevent, counter, or arrest the progress of the thromboembolic disorder.

By way of general guidance, the daily oral dosage of each active ingredient, when used for the indicated effects, will range between about 0.001 to 1000 mg/kg of body weight, preferably between about 0.01 to 100 mg/kg of body weight per day, and most preferably between about 1.0 to 20 mg/kg/day. Intravenously, the most preferred doses will range from about 1 to about 10 mg/kg/minute during a constant rate infusion. Compounds of this invention may be administered in a single daily dose, or the total daily dosage may be administered in divided doses of two, three, or four times daily.

Compounds of this invention can be administered in intranasal form via topical use of suitable intranasal vehicles, or via transdermal routes, using transdermal skin patches. When administered in the form of a transdermal delivery system, the dosage administration will, of course, be continuous rather than intermittent throughout the dosage regimen.

The compounds are typically administered in admixture with suitable pharmaceutical diluents, excipients, or carriers (collectively referred to herein as pharmaceutical carriers) suitably selected with respect to the intended form of administration, that is, oral tablets, capsules, elixirs, syrups and the like, and consistent with conventional pharmaceutical practices.

For instance, for oral administration in the form of a tablet or capsule, the active drug component can be combined with an oral, non-toxic, pharmaceutically acceptable, inert carrier such as lactose, starch, sucrose, glucose, methyl callulose, magnesium stearate, dicalcium phosphate, calcium sulfate, mannitol, sorbitol and the like; for oral administration in liquid form, the oral drug components can be combined with any oral, non-toxic, pharmaceutically acceptable inert carrier such as ethanol, glycerol, water, and the like. Moreover, when desired or necessary, suitable binders, lubricants, disintegrating agents, and coloring agents can also be incorporated into the mixture. Suitable binders include starch, gelatin, natural sugars such as glucose or beta-lactose, corn sweeteners, natural and synthetic gums such as acacia, tragacanth, or sodium alginate, carboxymethylcellulose, polyethylene glycol, waxes, and the Lubricants used in these dosage forms include sodium oleate, sodium stearate, magnesium stearate, sodium benzoate, sodium acetate, sodium chloride, and the like. Disintegrators include, without limitation, starch, methyl cellulose, agar, bentonite, xanthan gum, and the like.

The compounds of the present invention can also be administered in the form of liposome delivery systems, such as small unilamellar vesicles, large unilamellar vesicles, and multilamellar vesicles. Liposomes can be formed from a variety of phospholipids, such as cholesterol, stearylamine, or phosphatidylcholines.

Compounds of the present invention may also be coupled with soluble polymers as targetable drug carriers. Such polymers can include polyvinylpyrrolidone, pyran copolymer, polyhydroxypropylmethacrylamide-phenol,

polyhydroxyethylaspartamidephenol, or polyethyleneoxidepolylysine substituted with palmitoyl residues. Furthermore,
the compounds of the present invention may be coupled to a
class of biodegradable polymers useful in achieving controlled
release of a drug, for example, polylactic acid, polyglycolic
acid, copolymers of polylactic and polyglycolic acid,
polyepsilon caprolactone, polyhydroxy butyric acid,
polyorthoesters, polyacetals, polydihydropyrans,
polycyanoacylates, and crosslinked or amphipathic block
copolymers of hydrogels.

Dosage forms (pharmaceutical compositions) suitable for administration may contain from about 1 milligram to about 100 milligrams of active ingredient per dosage unit. In these pharmaceutical compositions the active ingredient will ordinarily be present in an amount of about 0.5-95% by weight based on the total weight of the composition.

Gelatin capsules may contain the active ingredient and powdered carriers, such as lactose, starch, cellulose derivatives, magnesium stearate, stearic acid, and the like. Similar diluents can be used to make compressed tablets. Both tablets and capsules can be manufactured as sustained release products to provide for continuous release of medication over a period of hours. Compressed tablets can be sugar coated or film coated to mask any unpleasant taste and protect the tablet from the atmosphere, or enteric coated for selective disintegration in the gastrointestinal tract.

Liquid dosage forms for oral administration can contain coloring and flavoring to increase patient acceptance.

In general, water, a suitable oil, saline, aqueous dextrose (glucose), and related sugar solutions and glycols such as propylene glycol or polyethylene glycols are suitable carriers for parenteral solutions. Solutions for parenteral administration preferably contain a water soluble salt of the active ingredient, suitable stabilizing agents, and if necessary, buffer substances. Antioxidizing agents such as sodium bisulfite, sodium sulfite, or ascorbic acid, either alone or combined, are suitable stabilizing agents. Also used are citric acid and its salts and sodium EDTA. In addition,

parenteral solutions can contain preservatives, such as benzalkonium chloride, methyl- or propyl-paraben, and chlorobutanol.

Suitable pharmaceutical carriers are described in Remington's Pharmaceutical Sciences, Mack Publishing Company, a standard reference text in this field.

Representative useful pharmaceutical dosage-forms for administration of the compounds of this invention can be illustrated as follows:

Capsules

A large number of unit capsules can be prepared by filling standard two-piece hard gelatin capsules each with 100 milligrams of powdered active ingredient, 150 milligrams of lactose, 50 milligrams of cellulose, and 6 milligrams magnesium stearate.

Soft Gelatin Capsules

A mixture of active ingredient in a digestable oil such as soybean oil, cottonseed oil or olive oil may be prepared and injected by means of a positive displacement pump into gelatin to form soft gelatin capsules containing 100 milligrams of the active ingredient. The capsules should be washed and dried.

<u>Tablets</u>

Tablets may be prepared by conventional procedures so that the dosage unit is 100 milligrams of active ingredient, 0.2 milligrams of colloidal silicon dioxide, 5 milligrams of magnesium stearate, 275 milligrams of microcrystalline cellulose, 11 milligrams of starch and 98.8 milligrams of lactose. Appropriate coatings may be applied to increase palatability or delay absorption.

<u>Injectable</u>

A parenteral composition suitable for administration by injection may be prepared by stirring 1.5% by weight of active ingredient in 10% by volume propylene glycol and water. The solution should be made isotonic with sodium chloride and sterilized.

Suspension

An aqueous suspension can be prepared for oral administration so that each 5 mL contain 100 mg of finely divided active ingredient, 200 mg of sodium carboxymethyl cellulose, 5 mg of sodium benzoate, 1.0 g of sorbitol solution, U.S.P., and 0.025 mL of vanillin.

Where the compounds of this invention are combined with other anticoagulant agents, for example, a daily dosage may be about 0.1 to 100 milligrams of the compound of Formula I and about 1 to 7.5 milligrams of the second anticoagulant, per kilogram of patient body weight. For a tablet dosage form, the compounds of this invention generally may be present in an amount of about 5 to 10 milligrams per dosage unit, and the second anti-coagulant in an amount of about 1 to 5 milligrams per dosage unit.

Where the compounds of Formula I are administered in combination with an anti-platelet agent, by way of general guidance, typically a daily dosage may be about 0.01 to 25 milligrams of the compound of Formula I and about 50 to 150 milligrams of the anti-platelet agent, preferably about 0.1 to 1 milligrams of the compound of Formula I and about 1 to 3 milligrams of antiplatelet agents, per kilogram of patient body weight.

Where the compounds of Formula I are adminstered in combination with thrombolytic agent, typically a daily dosage may be about 0.1 to 1 milligrams of the compound of Formula I, per kilogram of patient body weight and, in the case of the thrombolytic agents, the usual dosage of the thrombolyic agent when administered alone may be reduced by about 70-80% when administered with a compound of Formula I.

Where two or more of the foregoing second therapeutic agents are administered with the compound of Formula I, generally the amount of each component in a typical daily dosage and typical dosage form may be reduced relative to the usual dosage of the agent when administered alone, in view of the additive or synergistic effect of the therapeutic agents when administered in combination.

Particularly when provided as a single dosage unit, the potential exists for a chemical interaction between the combined active ingredients. For this reason, when the compound of Formula I and a second therapeutic agent are combined in a single dosage unit they are formulated such that although the active ingredients are combined in a single dosage unit, the physical contact between the active ingredients is minimized (that is, reduced). For example, one active ingredient may be enteric coated. By enteric coating one of the active ingredients, it is possible not only to minimize the contact between the combined active ingredients. but also, it is possible to control the release of one of these components in the gastrointestinal tract such that one of these components is not released in the stomach but rather is released in the intestines. One of the active ingredients may also be coated with a material which effects a sustainedrelease throughout the gastrointestinal tract and also serves to minimize physical contact between the combined active ingredients. Furthermore, the sustained-released component can be additionally enteric coated such that the release of this component occurs only in the intestine. Still another approach would involve the formulation of a combination product in which the one component is coated with a sustained and/or enteric release polymer, and the other component is also coated with a polymer such as a lowviscosity grade of hydroxypropyl methylcellulose (HPMC) or other appropriate materials as known in the art, in order to further separate the active components. The polymer coating serves to form an additional barrier to interaction with the other component.

These as well as other ways of minimizing contact between the components of combination products of the present invention, whether administered in a single dosage form or administered in separate forms but at the same time by the same manner, will be readily apparent to those skilled in the art, once armed with the present disclosure.

Obviously, numerous modifications and variations of the present invention are possible in light of the above teachings. It is therefore to be understood that within the

scope of the appended claims, the invention may be practiced otherwise that as specifically described herein.

WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTER PATENT OF UNITED STATES IS:

1. A compound of formula I:

or a stereoisomer or pharmaceutically acceptable salt thereof, wherein;

ring M contains, in addition to J, 0-2 N atoms;

J is O or S;

- D is selected from CN, $C(=NR^8)NR^7R^9$, $NHC(=NR^8)NR^7R^9$, $NR^8CH(=NR^7)$, $C(O)NR^7R^8$, and $(CR^8R^9)_tNR^7R^8$, provided that D is substituted meta or para to G on E;
- E is selected from phenyl, pyridyl, pyrimidyl, pyrazinyl, pyridazinyl, and piperidinyl substituted with 1 R;
- alternatively, D-E-G together represent pyridyl substituted
 with 1 R;
- R is selected from H, halogen, $(CH_2)_tOR^3$, C_{1-4} alkyl, OCF_3 , and CF_3 ;
- G is absent or is selected from NHCH2, OCH2, and SCH2;
- Z is selected from a C_{1-4} alkylene, $(CH_2)_rO(CH_2)_r$, $(CH_2)_rNR^3(CH_2)_r$, $(CH_2)_rC(O)(CH_2)_r$, $(CH_2)_rC(O)O(CH_2)_r$, $(CH_2)_rOC(O)(CH_2)_r$, $(CH_2)_rOC(O)NR^3(CH_2)_r$, $(CH_2)_rNR^3C(O)(CH_2)_r$, $(CH_2)_rOC(O)O(CH_2)_r$, $(CH_2)_rOC(O)NR^3(CH_2)_r$, $(CH_2)_rNR^3C(O)O(CH_2)_r$, $(CH_2)_rNR^3C(O)NR^3(CH_2)_r$, $(CH_2)_rS(O)_p(CH_2)_r$, $(CH_2)_rSO_2NR^3(CH_2)_r$, $(CH_2)_rNR^3SO_2(CH_2)_r$, and

 $(CH_2)_rNR^3SO_2NR^3(CH_2)_r$, provided that Z does not form a N-N, N-O, N-S, NCH₂N, NCH₂O, or NCH₂S bond with ring M or group A;

- R^{1a} and R^{1b} are independently absent or selected from $-(CH_2)_r-R^{1'}$, $NCH_2R^{1''}$, $OCH_2R^{1''}$, $SCH_2R^{1''}$, $N(CH_2)_2(CH_2)_tR^{1'}$, $O(CH_2)_2(CH_2)_tR^{1'}$, and $S(CH_2)_2(CH_2)_tR^{1'}$, or combined to form a 5-8 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^4 and which contains from 0-2 heteroatoms selected from the group consisting of N, O, and S;
- $\rm R^{1'}$ is selected from H, $\rm C_{1-3}$ alkyl, halo, $\rm (CF_2)_r CF_3$, $\rm OR^2$, $\rm NR^2R^{2a}$, $\rm C(0)R^{2c}$, $\rm OC(0)R^2$, $\rm (CF_2)_r CO_2R^{2c}$, $\rm S(0)_p R^{2b}$, $\rm NR^2(CH_2)_r OR^2$, $\rm NR^2C(0)R^{2b}$, $\rm NR^2C(0)NHR^{2b}$, $\rm NR^2C(0)_2R^{2a}$, $\rm OC(0)NR^{2b}$, $\rm C(0)NR^{2}R^{2a}$, $\rm SO_2NR^2R^{2a}$, $\rm NR^2SO_2R^{2b}$, $\rm C_{3-6}$ carbocyclic residue substituted with 0-2 $\rm R^4$, and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 $\rm R^4$;
- R^{1} " is selected from H, C(O) R^{2b} , C(O) NR^2R^{2a} , S(O) R^{2b} , S(O) $_2R^{2b}$, and SO $_2NR^2R^{2a}$;
- R^2 , at each occurrence, is selected from H, CF_3 , C_{1-6} alkyl, benzyl, C_{3-6} carbocyclic residue substituted with 0-2 R^{4b} , and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b} ;
- R^{2a} , at each occurrence, is selected from H, CF₃, C₁₋₆ alkyl, benzyl, C₃₋₆ carbocyclic residue substituted with 0-2 R^{4b} , and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b} ;
- R^{2b} , at each occurrence, is selected from CF_3 , C_{1-4} alkoxy, C_{1-6} alkyl, benzyl, C_{3-6} carbocyclic residue substituted with

0-2 R^{4b}, and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b};

- R^{2c} , at each occurrence, is selected from CF_3 , OH, C_{1-4} alkoxy, C_{1-6} alkyl, benzyl, C_{3-6} carbocyclic residue substituted with 0-2 R^{4b} , and 5-6 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4b} ;
- alternatively, R^2 and R^{2a} combine to form a 5 or 6 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^{4b} which contains from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^3 , at each occurrence, is selected from H, C_{1-4} alkyl, and phenyl;
- R^{3a} , at each occurrence, is selected from H, C_{1-4} alkyl, and phenyl;

A is selected from:

 C_{3-10} carbocyclic residue substituted with 0-2 R^4 , and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^4 :

B is selected from:

X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, $NR^2C(=NR^2)NR^2R^{2a}$, C_{3-10} carbocyclic residue substituted with 0-2 R^{4a} , and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a} ;

X is selected from C_{1-4} alkylene, $-CR^2(CR^2R^{2b})(CH_2)_{t-}$, $-C(0)_{-}$, $-C(=NR)_{-}$, $-CR^2(NR^{1}R^2)_{-}$, $-CR^2(OR^2)_{-}$, $-CR^2(SR^2)_{-}$, $-C(0)CR^2R^{2a}_{-}$, $-CR^2R^{2a}_{-}$ (0), $-S(0)_{p-}$, $-S(0)_{p}CR^2R^{2a}_{-}$,

 $-\text{CR}^2\text{R}^2\text{aS}(0)_p-, -\text{S}(0)_2\text{NR}^2-, -\text{NR}^2\text{S}(0)_2-, -\text{NR}^2\text{S}(0)_2\text{CR}^2\text{R}^2\text{a}-, \\ -\text{CR}^2\text{R}^2\text{aS}(0)_2\text{NR}^2-, -\text{NR}^2\text{S}(0)_2\text{NR}^2-, -\text{C}(0)\text{NR}^2-, -\text{NR}^2\text{C}(0)-, \\ -\text{C}(0)\text{NR}^2\text{CR}^2\text{R}^2\text{a}-, -\text{NR}^2\text{C}(0)\text{CR}^2\text{R}^2\text{a}-, -\text{CR}^2\text{R}^2\text{aC}(0)\text{NR}^2-, \\ -\text{CR}^2\text{R}^2\text{aNR}^2\text{C}(0)-, -\text{NR}^2\text{C}(0)\text{O}-, -\text{OC}(0)\text{NR}^2-, -\text{NR}^2\text{C}(0)\text{NR}^2-, \\ -\text{NR}^2-, -\text{NR}^2\text{CR}^2\text{R}^2\text{a}-, -\text{CR}^2\text{R}^2\text{aNR}^2-, 0, -\text{CR}^2\text{R}^2\text{aO}-, \text{ and} \\ -\text{OCR}^2\text{R}^2\text{a}-;$

Y is selected from:

 $(CH_2)_rNR^2R^{2a}$, provided that X-Y do not form a N-N, O-N, or S-N bond,

 C_{3-10} carbocyclic residue substituted with 0-2 R^{4a} , and 5-10 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-2 R^{4a} ;

- alternatively, one R⁴ is a 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- alternatively, one R^{4a} is a 5-6 membered aromatic heterocycle containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-1 R⁵;
- R^{4b} , at each occurrence, is selected from =0, $(CH_2)_rOR^3$, halo, C_{1-4} alkyl, -CN, NO_2 , $(CH_2)_rNR^3R^{3a}$, $(CH_2)_rC(O)R^3$,

- R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl substituted with 0-2 R^6 , and benzyl substituted with 0-2 R^6 ;
- R⁶, at each occurrence, is selected from H, OH, $(CH_2)_rOR^2$, halo, C_{1-4} alkyl, CN, NO₂, $(CH_2)_rNR^2R^{2a}$, $(CH_2)_rC(O)R^{2b}$, $NR^2C(O)R^{2b}$, $NR^2C(O)NR^2R^{2a}$, $CH(=NH)NH_2$, $NHC(=NH)NH_2$, $SO_2NR^2R^{2a}$, $NR^2SO_2NR^2R^{2a}$, and $NR^2SO_2C_{1-4}$ alkyl;
- R^7 , at each occurrence, is selected from H, OH, C_{1-6} alkyl, C_{1-6} alkylcarbonyl, C_{1-6} alkoxy, C_{1-4} alkoxycarbonyl, $(CH_2)_n$ -phenyl, C_{6-10} aryloxy, C_{6-10} aryloxycarbonyl, C_{1-4} alkoxycarbonyl, C_{1-4} alkoxycarbonyl, C_{6-10} arylcarbonyloxy C_{1-4} alkoxycarbonyl, C_{1-6} alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C_{1-4} alkoxycarbonyl;
- R^8 , at each occurrence, is selected from H, C_{1-6} alkyl and $(CH_2)_n$ -phenyl;
- alternatively, R^7 and R^8 combine to form a 5 or 6 membered saturated, ring which contains from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^9 , at each occurrence, is selected from H, C_{1-6} alkyl and $(CH_2)_n$ -phenyl;
- n, at each occurrence, is selected from 0, 1, 2, and 3;
- m, at each occurrence, is selected from 0, 1, and 2;
- p, at each occurrence, is selected from 0, 1, and 2;

r, at each occurrence, is selected from 0, 1, 2, and 3;

s, at each occurrence, is selected from 0, 1, and 2; and,

t, at each occurrence, is selected from 0 and 1:

provided that $D-E-G-(CH_2)_s-$ and -Z-A-B are not both benzamidines.

2. A compound according to Claim 1, wherein the compound is of formulae Ia-If:

wherein, groups D-E- and -Z-A-B are attached to adjacent atoms on the ring;

- Z is selected from a CH_2O , OCH_2 , CH_2NH , $NHCH_2$, C(O), $CH_2C(O)$, $C(O)CH_2$, NHC(O), C(O)NH, $CH_2S(O)_2$, $S(O)_2(CH_2)$, SO_2NH , and $NHSO_2$, provided that Z does not form a N-N, N-O, NCH_2N , or NCH_2O bond with ring M or group A;
- A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R⁴; phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl,

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1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, benzoxazolyl, benzthiazolyl, indazolyl, benzisoxazolyl, benzisothiazolyl, and isoindazolyl;
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- B is selected from: Y, X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, and $NR^2C(=NR^2)NR^2R^{2a}$;
- X is selected from C_{1-4} alkylene, -C(0)-, -C(=NR)-, $-CR^2(NR^2R^{2a})$ -, $-C(0)CR^2R^{2a}$ -, $-CR^2R^{2a}C(0)$, $-C(0)NR^2$ -, $-NR^2C(0)$ -, $-C(0)NR^2CR^2R^{2a}$ -, $-NR^2C(0)CR^2R^{2a}$ -, $-CR^2R^{2a}C(0)NR^2$ -, $-CR^2R^{2a}NR^2C(0)$ -, $-NR^2C(0)NR^2$ -, $-NR^2$ -, $-NR^2CR^2R^{2a}$ -, $-CR^2R^{2a}NR^2$ -, 0, $-CR^2R^{2a}$ -, and $-OCR^2R^{2a}$ -;
- Y is NR²R^{2a}, provided that X-Y do not form a N-N or O-N bond;
- alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with $0-2\ R^{4a}$;

cylcopropyl, cyclopentyl, cyclohexyl, phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, isoxazolinyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,5-thiadiazolyl, 1,3,4-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl, benzofuranyl, benzothiofuranyl, indolyl, benzimidazolyl, benzoxazolyl, benzthiazolyl, indazolyl, benzisoxazolyl, benzisothiazolyl, and isoindazolyl;

alternatively, Y is selected from the following bicyclic heteroaryl ring systems:

K is selected from O, S, NH, and N.

3. A compound according to Claim 2, wherein the compound is of formulae Ib and Ic:

wherein;

J is O or S; and,

- Z is selected from a C(O), $CH_2C(O)$, $C(O)CH_2$, NHC(O), C(O)NH, $C(O)N(CH_3)$, $CH_2S(O)_2$, $S(O)_2(CH_2)$, SO_2NH , and $NHSO_2$, provided that Z does not form a N-N or NCH_2N bond with ring M or group A.
- 4. A compound according to Claim 3, wherein the compound is of formulae Ib and Ic:

E is phenyl substituted with R or 2-pyridyl substituted with R;

- D is selected from NH_2 , $C(0)NH_2$, $C(=NH)NH_2$, CH_2NH_2 , CH_2NHCH_3 , $CH(CH_3)NH_2$, and $C(CH_3)_2NH_2$, provided that D is substituted meta or para to ring M on E; and,
- R is selected from H, OCH3, Cl, and F.
- 5. A compound according to Claim 4, wherein the compound is of formulae Ib and Ic:
- D-E is selected from 3-aminophenyl, 3-amidinophenyl, 3-aminomethylphenyl, 3-aminocarbonylphenyl, 3-(methylaminomethyl)phenyl, 3-(1-aminoethyl)phenyl, 3-(2-amino-2-propyl)phenyl, 4-chloro-3-aminophenyl, 4-chloro-3-amidinophenyl, 4-chloro-3-aminomethylphenyl, 4-chloro-3-(methylaminomethyl)phenyl, 4-fluoro-3-aminophenyl, 4-fluoro-3-aminomethylphenyl, 4-fluoro-3-(methylaminomethyl)phenyl, 6-aminopyrid-2-yl, 6-amidinopyrid-2-yl, 6-aminomethylpyrid-2-yl, 6-aminocarbonylpyrid-2-yl, 6-(methylaminomethyl)pyrid-2-yl, 6-(1-aminoethyl)pyrid-2-yl, and 6-(2-amino-2-propyl)pyrid-2-yl.
- 6. A compound according to Claim 3, wherein the compound is of formulae Ib and Ic:
- Z is C(O)CH₂ and CONH, provided that Z does not form a N-N bond with group A;
- A is selected from phenyl, pyridyl, and pyrimidyl, and is substituted with 0-2 R⁴; and,

B is selected from X-Y, phenyl, pyrrolidino, morpholino, 1,2,3-triazolyl, and imidazolyl, and is substituted with 0-1 R^{4a};

- R^4 , at each occurrence, is selected from OH, $(CH_2)_rOR^2$, halo, C_{1-4} alkyl, $(CH_2)_rNR^2R^{2a}$, and $(CF_2)_rCF_3$;
- R^{4a} is selected from C_{1-4} alkyl, CF_3 , $S(0)_p R^5$, $SO_2NR^2R^{2a}$, and $1-CF_3$ -tetrazol-2-yl;
- R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl, and benzyl;
- X is CH_2 or C(0); and,
- Y is selected from pyrrolidino and morpholino.
- 7. A compound according to Claim 6, wherein the compound is of formulae Ib and Ic:
- A is selected from the group: phenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-Cl-phenyl, 3-Cl-phenyl, 2-F-phenyl, 3-F-phenyl, 2-methylphenyl, 2-aminophenyl, and 2-methoxyphenyl; and,
- B is selected from the group: 2-CF3-phenyl, 2(aminosulfonyl)phenyl, 2-(methylaminosulfonyl)phenyl, 2(dimethylaminosulfonyl)phenyl, 1-pyrrolidinocarbonyl, 2(methylsulfonyl)phenyl, 4-morpholino, 2-(1'-CF3-tetrazol2-yl)phenyl, 4-morpholinocarbonyl, 2-methyl-1-imidazolyl,
 5-methyl-1-imidazolyl, 2-methylsulfonyl-1-imidazolyl and,
 5-methyl-1,2,3-triazolyl.
- 8. A compound according to Claim 3, wherein the compound is of formulae Ib and Ic:

E is phenyl substituted with R or 2-pyridyl substituted with R;

- D is selected from NH_2 , $C(0)NH_2$, $C(=NH)NH_2$, CH_2NH_2 , CH_2NHCH_3 , $CH(CH_3)NH_2$, and $C(CH_3)_2NH_2$, provided that D is substituted meta or para to ring M on E; and,
- R is selected from H, OCH3, Cl, and F;
- Z is C(0)CH₂ and CONH, provided that Z does not form a N-N bond with group A;
- A is selected from phenyl, pyridyl, and pyrimidyl, and is substituted with 0-2 R^4 ; and,
- B is selected from X-Y, phenyl, pyrrolidino, morpholino, 1,2,3-triazolyl, and imidazolyl, and is substituted with 0-1 R^{4a} ;
- R^4 , at each occurrence, is selected from OH, $(CH_2)_rOR^2$, halo, C_{1-4} alkyl, $(CH_2)_rNR^2R^{2a}$, and $(CF_2)_rCF_3$;
- R^{4a} is selected from C_{1-4} alkyl, CF_3 , $S(0)_pR^5$, $SO_2NR^2R^{2a}$, and $1-CF_3-tetrazol-2-yl$;
- R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl, and benzyl;
- X is CH_2 or C(0); and,
- Y is selected from pyrrolidino and morpholino.
- 9. A compound according to Claim 8, wherein the compound is of formulae Ib and Ic:
- D-E is selected from 3-aminophenyl, 3-amidinophenyl, 3-aminomethylphenyl, 3-aminocarbonylphenyl, 3-

(methylaminomethyl)phenyl, 3-(1-aminoethyl)phenyl, 3-(2-amino-2-propyl)phenyl, 4-chloro-3-aminophenyl, 4-chloro-3-amidinophenyl, 4-chloro-3-aminomethylphenyl, 4-chloro-3-(methylaminomethyl)phenyl, 4-fluoro-3-aminophenyl, 4-fluoro-3-aminomethylphenyl, 4-fluoro-3-aminomethylphenyl, 4-fluoro-3-(methylaminomethyl)phenyl, 6-aminopyrid-2-yl, 6-amidinopyrid-2-yl, 6-aminomethylpyrid-2-yl, 6-(aminocarbonylpyrid-2-yl, 6-(methylaminomethyl)pyrid-2-yl, 6-(1-aminoethyl)pyrid-2-yl, 6-(2-amino-2-propyl)pyrid-2-yl;

- A is selected from the group: phenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-Cl-phenyl, 3-Cl-phenyl, 2-F-phenyl, 3-F-phenyl, 2-methylphenyl, 2-aminophenyl, and 2-methoxyphenyl; and,
- B is selected from the group: 2-CF3-phenyl, 2(aminosulfonyl)phenyl, 2-(methylaminosulfonyl)phenyl, 2(dimethylaminosulfonyl)phenyl, 1-pyrrolidinocarbonyl, 2(methylsulfonyl)phenyl, 4-morpholino, 2-(1'-CF3-tetrazol2-yl)phenyl, 4-morpholinocarbonyl, 2-methyl-1-imidazolyl,
 5-methyl-1-imidazolyl, 2-methylsulfonyl-1-imidazolyl and,
 5-methyl-1,2,3-triazolyl.
- 10. A compound according to Claim 9, wherein the compound is of formula Ib₁.
- 11. A compound according to Claim 9, wherein the compound is of formula Ib₂.
- 12. A compound according to Claim 9, wherein the compound is of formula Ib3.

13. A compound according to Claim 9, wherein the compound is of formula Ib4.

- 14. A compound according to Claim 9, wherein the compound is of formula Ic_1 .
- 15. A compound according to Claim 9, wherein the compound is of formula Ic_2 .
- 16. A compound according to Claim 3, wherein the compound is of formulae Ib and Ic:
- D is selected from $C(=NR^8)NR^7R^9$, $C(O)NR^7R^8$, NR^7R^8 , and $CH_2NR^7R^8$, provided that D is substituted meta or para to ring M on E;
- E is phenyl substituted with R or pyridyl substituted with R:
- R is selected from H, Cl, F, OR^3 , CH_3 , CH_2CH_3 , OCF_3 , and CF_3 ;
- Z is selected from C(0), $CH_2C(0)$, $C(0)CH_2$, NHC(0), and C(0)NH, provided that Z does not form a N-N bond with ring M or group A;
- R^{1a} and R^{1b} are independently absent or selected from $-(CH_2)_r-R^{1'}$, $NCH_2R^{1''}$, $OCH_2R^{1''}$, $SCH_2R^{1''}$, $N(CH_2)_2(CH_2)_tR^{1'}$, $O(CH_2)_2(CH_2)_tR^{1'}$, and $S(CH_2)_2(CH_2)_tR^{1'}$, or combined to form a 5-8 membered saturated, partially saturated or unsaturated ring substituted with 0-2 R^4 and which contains from 0-2 heteroatoms selected from the group consisting of N, O, and S;
- R^{1} ', at each occurrence, is selected from H, C_{1-3} alkyl, halo, $(CF_2)_rCF_3$, OR^2 , NR^2R^{2a} , $C(0)R^{2c}$, $(CF_2)_rCO_2R^{2c}$, $S(0)_pR^{2b}$,

$$\label{eq:NR2} \begin{split} NR^2 \, (CH_2)_{\,r} OR^2 \,, & \, NR^2 C \, (O) \, R^{2b} \,, & \, NR^2 C \, (O) \, _2 R^{2b} \,, & \, C \, (O) \, NR^2 R^{2a} \,, \\ SO_2 NR^2 R^{2a} \,, & \, \text{and} & \, NR^2 SO_2 R^{2b} \,; \end{split}$$

- A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R⁴; phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, and imidazolyl;
- B is selected from: Y, X-Y, NR^2R^{2a} , $C(=NR^2)NR^2R^{2a}$, and $NR^2C(=NR^2)NR^2R^{2a}$;
- X is selected from CH_2 , $-CR^2(CR^2R^{2b})(CH_2)_{t-}$, $-C(O)_{-}$, $-C(=NR)_{-}$, $-CH(NR^2R^{2a})_{-}$, $-C(O)NR^2_{-}$, $-NR^2C(O)_{-}$, $-NR^2C(O)NR^2_{-}$, $-NR^2_{-}$, and O;
- Y is NR²R^{2a}, provided that X-Y do not form a N-N or O-N bond;
- alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};

phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, isoxazolinyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, and 1,3,4-triazolyl;

R^{4a}, at each occurrence, is selected from =0, OH, Cl, F, C₁₋₄ alkyl, $(CH_2)_rNR^2R^{2a}$, $(CH_2)_rC(0)R^{2b}$, $NR^2C(0)R^{2b}$, $C(0)NR^2R^{2a}$, $CH(=NH)NH_2$, $NHC(=NH)NH_2$, $SO_2NR^2R^{2a}$, $NR^2SO_2-C_{1-4}$ alkyl, $NR^2SO_2R^5$, $S(0)_pR^5$, $(CF_2)_rCF_3$, and 1-CF₃-tetrazol-2-yl;

- R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl substituted with 0-2 R^6 , and benzyl substituted with 0-2 R^6 ;
- R^6 , at each occurrence, is selected from H, =O, OH, OR^2 , Cl, F, CH_3 , CN, NO_2 , $(CH_2)_rNR^2R^{2a}$, $(CH_2)_rC(O)R^{2b}$, $NR^2C(O)R^{2b}$, $CH(=NH)NH_2$, $NHC(=NH)NH_2$, and $SO_2NR^2R^{2a}$;
- R^7 , at each occurrence, is selected from H, OH, C_{1-6} alkyl, C_{1-6} alkylcarbonyl, C_{1-6} alkoxy, C_{1-4} alkoxycarbonyl, benzyl, C_{6-10} aryloxy, C_{6-10} aryloxycarbonyl, C_{6-10} arylmethylcarbonyl, C_{1-4} alkylcarbonyloxy C_{1-4} alkoxycarbonyl, C_{6-10} arylcarbonyloxy C_{1-4} alkoxycarbonyl, C_{1-6} alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C_{1-4} alkoxycarbonyl;
- R^8 , at each occurrence, is selected from H, C_{1-6} alkyl and benzyl; and
- alternatively, R^7 and R^8 combine to form a morpholino group; and,
- R^9 , at each occurrence, is selected from H, C_{1-6} alkyl and benzyl.
- 17. A compound according to Claim 16, wherein the compound is of formulae Ib and Ic:
- E is phenyl substituted with R or 2-pyridyl substituted with R;
- R is selected from H, Cl, F, OCH3, CH3, OCF3, and CF3;

Z is selected from a C(O)CH₂ and C(O)NH, provided that Z does not form a N-N bond with group A;

- R^{1a} is selected from H, CH_3 , CH_2CH_3 , Cl, F, CF_3 , OCH_3 , NR^2R^{2a} , $S(0)_pR^{2b}$, $CH_2S(0)_pR^{2b}$, $CH_2NR^2S(0)_pR^{2b}$, $C(0)R^{2c}$, $CH_2C(0)R^{2c}$, $C(0)NR^2R^{2a}$, and $SO_2NR^2R^{2a}$;
- R^{1b} is selected from H, CH₃, CH₂CH₃, Cl, F, CF₃, OCH₃, NR²R^{2a}, $S(0)_pR^{2b}$, CH₂S(0) $_pR^{2b}$, CH₂NR²S(0) $_pR^{2b}$, C(0)R^{2c}, CH₂C(0)R^{2c}, C(0)NR²R^{2a}, and SO₂NR²R^{2a};
- A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R4; phenyl, pyridyl, pyrimidyl, furanyl, thiophenyl, pyrrolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, and imidazolyl;
- B is selected from: Y and X-Y;
- X is selected from CH_2 , $-CR^2(CR^2R^{2b})$ -, -C(O)-, -C(=NR)-, $-CH(NR^2R^{2a})$ -, $-C(O)NR^2$ -, $-NR^2C(O)$ -, $-NR^2C(O)NR^2$ -, $-NR^2$ -, and O;
- Y is NR²R^{2a}, provided that X-Y do not form a N-N or O-N bond;
- alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R^{4a};

phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thiophenyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, isoxazolinyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, oxadiazolyl, thiadiazolyl, triazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl, and 1,3,4-triazolyl;

 R^2 , at each occurrence, is selected from H, CF_3 , CH_3 , benzyl, and phenyl;

- R^{2a} , at each occurrence, is selected from H, CF_3 , CH_3 , benzyl, and phenyl;
- R^{2b} , at each occurrence, is selected from CF_3 , OCH_3 , CH_3 , benzyl, and phenyl;
- R^{2c} , at each occurrence, is selected from CF_3 , OH, OCH_3 , CH_3 , benzyl, and phenyl;
- alternatively, R² and R^{2a} combine to form a 5 or 6 membered saturated, partially unsaturated, or unsaturated ring which contains from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^3 , at each occurrence, is selected from H, CH_3 , CH_2CH_3 , and phenyl;
- R^{3a} , at each occurrence, is selected from H, CH_3 , CH_2CH_3 , and phenyl;
- R^4 , at each occurrence, is selected from OH, Cl, F, CH₃, CH_2CH_3 , NR^2R^{2a} , $CH_2NR^2R^{2a}$, $C(O)R^{2b}$, $NR^2C(O)R^{2b}$, $C(O)NR^2R^{2a}$, and CF_3 ;
- R^{4a} , at each occurrence, is selected from OH, Cl, F, CH₃, CH_2CH_3 , NR^2R^{2a} , $CH_2NR^2R^{2a}$, $C(O)R^{2b}$, $C(O)NR^2R^{2a}$, $SO_2NR^2R^{2a}$, $S(O)_pR^5$, CF_3 , and 1-CF₃-tetrazol-2-yl;
- R^5 , at each occurrence, is selected from CF_3 , C_{1-6} alkyl, phenyl substituted with 0-2 R^6 , and benzyl substituted with 1 R^6 ;
- R^6 , at each occurrence, is selected from H, OH, OCH₃, Cl, F, CH₃, CN, NO₂, NR^2R^{2a} , $CH_2NR^2R^{2a}$, and $SO_2NR^2R^{2a}$;

 R^7 , at each occurrence, is selected from H, OH, C_{1-3} alkyl, C_{1-3} alkylcarbonyl, C_{1-3} alkoxy, C_{1-4} alkoxycarbonyl, benzyl, phenoxy, phenoxycarbonyl, benzylcarbonyl, C_{1-4} alkylcarbonyloxy C_{1-4} alkoxycarbonyl, phenylcarbonyloxy C_{1-4} alkoxycarbonyl, C_{1-6} alkylaminocarbonyl, phenylaminocarbonyl, and phenyl C_{1-4} alkoxycarbonyl;

- R^8 , at each occurrence, is selected from H, CH_3 , and benzyl; and,
- alternatively, R^7 and R^8 combine to form a morpholino group; R^9 , at each occurrence, is selected from H, CH_3 , and benzyl.
- 18. A compound according to Claim 17, wherein the compound is of formulae Ib and Ic:
- R^{1a} is absent or is selected from H, CH₃, CH₂CH₃, Cl, F, CF₃, OCH₃, NR²R^{2a}, S(O)_pR^{2b}, C(O)NR²R^{2a}, CH₂S(O)_pR^{2b}, CH₂NR²S(O)_pR^{2b}, C(O)R^{2c}, CH₂C(O)R^{2c}, and SO₂NR²R^{2a};
- R^{1b} is absent or is selected from H, CH₃, CH₂CH₃, Cl, F, CF₃, OCH₃, NR²R^{2a}, S(O)_pR^{2b}, C(O)NR²R^{2a}, CH₂S(O)_pR^{2b}, CH₂NR²S(O)_pR^{2b}, C(O)R^{2b}, CH₂C(O)R^{2b}, and SO₂NR²R^{2a};
- A is selected from one of the following carbocyclic and heterocyclic systems which are substituted with 0-2 R4; phenyl, pyridyl, and pyrimidyl;
- B is selected from: Y and X-Y;
- X is selected from -C(0) and 0;
- Y is NR²R^{2a}, provided that X-Y do not form a O-N bond;

alternatively, Y is selected from one of the following carbocyclic and heterocyclic systems which are substituted with $0-2\ R^{4a}$;

phenyl, piperazinyl, pyridyl, pyrimidyl,
morpholinyl, pyrrolidinyl, imidazolyl, and 1,2,3triazolyl;

- \mathbb{R}^2 , at each occurrence, is selected from H, CF3, CH3, benzyl, and phenyl;
- R^{2a} , at each occurrence, is selected from H, CF_3 , CH_3 , benzyl, and phenyl;
- R^{2b} , at each occurrence, is selected from CF_3 , OCH_3 , CH_3 , benzyl, and phenyl;
- R^{2c} , at each occurrence, is selected from CF_3 , OH, OCH_3 , CH_3 , benzyl, and phenyl;
- alternatively, R^2 and R^{2a} combine to form a ring system selected from pyrrolidinyl, piperazinyl and morpholino;
- R^4 , at each occurrence, is selected from Cl, F, CH_3 , NR^2R^{2a} , and CF_3 ;
- R^{4a} , at each occurrence, is selected from Cl, F, CH₃, $SO_2NR^2R^{2a}$, $S(O)_pR^5$, and CF_3 ; and,
- R^5 , at each occurrence, is selected from CF_3 and CH_3 .
- 19. A compound according to Claim 1, wherein the compound is selected from the group:
- 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(hydroxymethyl)isoxazole;

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3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-
yl)aminocarbonyl]isoxazole;
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- 3-(3-amidinophenyl)-4-[(2'-methylsulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;
- 3-(3-amidinophenyl)-4-[5-(2-aminosulfonyl)phenylpyrid-2-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-trifluoromethyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(trifluoromethyl)isoxazole;
- 2-acetylamino-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 2-amino-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 2-methyl-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 5-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]oxazole;
- 3-(3-amidinophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(methoxymethyl)-isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-t-butylaminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]isoxazole;
- 3-(3-amidinophenyl)-4-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]-5-(methoxymethyl)isoxazole;

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2-methyl-4-(3-amidinophenyl)-5-[(2'-trifluoromethyl-[1,1']-
     biphen-4-yl)aminocarbonyl]thiazole;
2-\text{phenyl}-4-(3-\text{amidinophenyl})-5-[(2'-\text{aminosulfonyl}-[1,1']-
     biphen-4-yl)aminocarbonyl]thiazole;
3-(3-amidinophenyl)-4-[(3-fluoro-2'-methylsulfonyl-[1,1']-
     biphen-4-yl)aminocarbonyl]isoxazole;
3-(3-amidinophenyl)-4-[(2'-trifluoromethylthio-[1,1']-biphen-
     4-yl)aminocarbonyl]isoxazole;
3-(3-amidinophenyl)-5-amino-4-[(2'-aminosulfonyl-[1,1']-
     biphen-4-yl)aminocarbonyl]isoxazole;
2-(phenylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-
     [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
2-(benzylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-
     [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
2-(methylamino)-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-
     [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
2-(methylamino)-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-
     [1,1']-biphen-4-yl)aminocarbonyl]thiazole;
2-\text{methyl}-4-(3-\text{amidinophenyl})-5-[[5-(2'-\text{aminosulfonylphenyl}-1-
     yl)pyridin-2-yl]aminocarbonyl]thiazole;
2-methyl-4-(3-(carboxamido)phenyl)-5-[[5-(2'-
     aminosulfonylphenyl-1-yl)pyridin-2-
     yl]aminocarbonyl]thiazole;
2-(3-pyridy1)-4-(3-amidinopheny1)-5-[(2'-aminosulfony1-[1,1']-
     biphen-4-yl)aminocarbonyl]thiazole;
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2-(3-pyridyl)-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-
[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
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- 2-chloro-4-(3-amidinophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 2-chloro-4-(3-carboxamidophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 2-chloro-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole;
- 2-chloro-4-(3-(carboxamido)phenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole;
- 2-hydroxy-4-(3-amidinophenyl)-5-[[5-(2'-aminosulfonylphenyl-1-yl)pyridin-2-yl]aminocarbonyl]thiazole;
- 2-chloro-4-(3-aminophenyl)-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 2-amino-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- 2-chloro-4-[(3-amino-4-chloro)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole; and,
- 2-amino-4-[(3-aminomethyl)phenyl]-5-[(2'-aminosulfonyl-[1,1']-biphen-4-yl)aminocarbonyl]thiazole;
- and a pharmaceutically acceptable salt thereof.
- 20. A pharmaceutical composition, comprising: a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound according to Claim 1 or a pharmaceutically acceptable salt thereof.

21. A method for treating or preventing a thromboembolic disorder, comprising: administering to a patient in need thereof a therapeutically effective amount of a compound according to Claim 1 or a pharmaceutically acceptable salt thereof.

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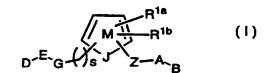
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(54) Title: OXYGEN OR SULFUR CONTAINING 5-MEMBERED HETEROAROMATICS AS FACTOR Xa INHIBITORS

(57) Abstract

The present application describes oxygen and sulfur containing heteroaromatics and derivatives thereof of formula (I), or pharmaceutically acceptable salt or prodrug forms thereof, wherein J is O or S and D may be C(=NH)NH2, which are useful as inhibitors of factor Xa.



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Int Itional Application No PCT/US 97/23470

A. CLASSI IPC 6	FICATION OF SUBJECT MATTER C07D261/18 A61K31/42 C07D275/ A61K31/41 C07D413/12 A61K31/4	702 A61K31/425 C07D417/04	C07D417/12
According to	o International Patent Classification (IPC) or to both national classifica	ition and IPC	
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	cumentation searched (classification system followed by classification CO7D A61K	on symbols)	
	tion searched other than minimum documentation to the extent that s	ich documents are included in th	e fields searched
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search to	erms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.
Р,А	US 5 668 159 A (CONFALONE PASQUAL NICHOLAS ET AL) 16 September 199 see claim 1		1
Α	WO 96 38426 A (DU PONT MERCK PHAND December 1996 cited in the application see claim 1	RMA) 5	1
Α	WO 95 18111 A (DU PONT MERCK PHAN July 1995 cited in the application see claim 1	RMA) 6	1
А	US 5 317 103 A (BAKER RAYMOND ETMAY 1994 cited in the application see claim 1	r AL) 31	1
X Furt	her documents are listed in the continuation of box C.	X Patent family members	s are listed in annex.
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"A" docum consid "E" earlier	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international		conflict with the application but inciple or theory underlying the
which	date ent which may throw doubts on priority claim(s) or is cited to establish the publicationdate of another in or other special reason (as specified)	involve an inventive step v "Y" document of particular relev	el or cannot be considered to when the document is taken alone vance; the claimed invention wolve an inventive step when the
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later t	han the priority date claimed	"&" document member of the s	
Date of the	actual completion of theinternational search	Date of mailing of the interest	
2	28 May 1998	2 0,	07. 9 8
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Gettins, M	

2

Int dional Application No
PCT/US 97/23470

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category '	Citation of document, with indication, where appropriate. of the relevant passages	Relevant to claim No.
1	EP 0 513 387 A (OTSUKA PHARMA CO LTD) 19 November 1992 see claim 1	1
	·	

International application No. PCT/US 97/23470

Box i	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claim 21 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.
لسما	Claims Nos.: 1-18,20,21 (all partially) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	see FURTHER INFORMATION sheet PCT/ISA/210
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	national Searching Authonty found multiple inventions in this international application, as follows:
	·
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
· ,	estricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1992)

International Application No. PCT/US 97 /23470

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Claims Nos.: 1-18,20,21 (all partially)

The scope of the claims and the thousands of examples are such that it is impossible to carry out a complete search on structural and economic grouds. It is noted that in all of the examples there appears to be a common structural element which appears to represent an essential technical (structural feature) It appears that G is always a bond, S is always zero, Z is always -C(O)-NH-, R1b is always hydrogen and the -E-D and -Z-A-B are attached to adjacent carbon atoms of the M ring. The search has been listed to these particular embodiments.

Information on patent family members

Inter anal Application No
PCT/US 97/23470

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5668159	Α	16-09-1997	NONE	
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